

Fig. 1A

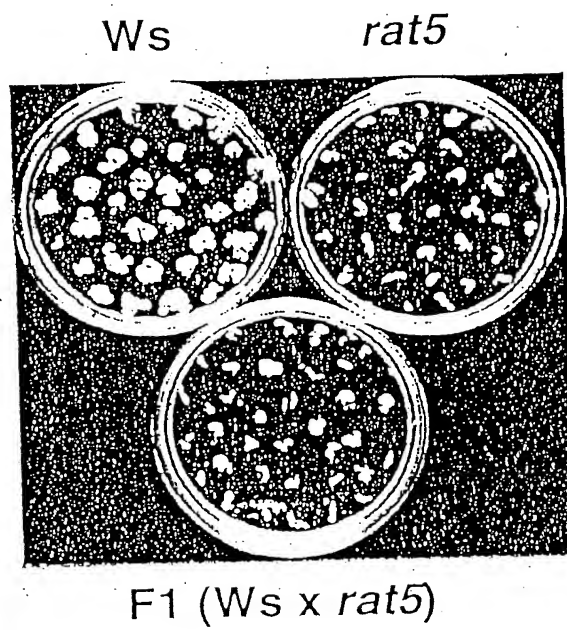


Fig. 1B

TCAAAAGGAAAGACATTAATAATTAGAAAATTGAATTTTGAAACATGTTGATAGATCATGTCCTTCTTCTGGGTTACCCAGTT 80
 TTGCCCTAAACCTAAACCCAAACAGGACCATCATTTTCGACCACACACATGACTGGTCTGCCCCCAATCTAGCTATGATA 160
 TATCTTAAATTTCCGTATGACTTTGGATCCATAAATAATTGAAATAGATTGGTGAAACACAAATTAATCTTTAAACCTTCTTCT 240
 CTTTCAATGATGTTCTTTTCTCACTTTAAACATTTTATATAGTGACATTTTATGTAATCCAACGTTATTTATATGATTA 320
 GTAATTCAATCAAAATTTATATAGTGATAAAATCCACAAATGGTTGTTCAATAAAATATGAACAACACAAATAGAAATTAGTA 400
 AAAGTGACTATGTTAAATCATTTTCTCGCTGGGTTTGGTGGCGAGTTCTAAACCCATAAGCGGCCCATTTACTTTCGT 480
 AAACCTCAATTCGATTTGTTTCAGCGTTCCAAAGCCCATATAATTTTCAAGGGCATATAAATAAATGAGGTTTATATGGA 560
 AAATTTGGAAATTTCCCTCGTCCAGAAAGAAACCAACAAACAACTGCAAAAGTTCAAGCGGTGGGAGAAACCTTCAGATC 640
 GTAGCCATTCAATAAATTAATCAACCGTTTAAACCTCTTCGATCCGCGTACTCTATTCCTTATGGTCAAAATAACTTAA 720
 TCCTCCACATATATAACAAATCAGATTTCTCTCTGTTAATTTCTGTAATTTCTGTAAGAAATAATTCGATTTTTTTGGGCTCTTG 800
 TGGGTTGTTGTTGAAATGGCTGGTGGTGAATAAATCTCTGGATCCGGTGGGGCGAAGAAAGCTACATCTCGGAGTA 880
 GCAAAGCCGGTCTTCAATTCCCGGTGGGTCGTATCGCTCGTTTCTTAAAGCCGGTAAATAACGCCGAACGTTGTTGGTGCC 960
 GGTGCTCCGGTTATCTCGCCGCCCGTTCTCGAAATATTTGGCCGCCGAGGTAAATATACATCGTCTTTCTCTCTTTCCCA 1040
 TTCCGTTTCCGATCTTATTCGTGACTCTGTTTTCGCGTATCGATTACGAATCTAGGGTTCTTACATTTTCCGAATTT 1120
 GACATGCAAAATTTGAATTAGATTTCGTGTTTGAATTTGAATTTGTTGTTAGTTCTGTAATTGACCTAATTTGGGTTTGTCT 1200
 GATTGGTTGATGGTAATCGAGATCATATGAATCGTTGTAGTTTCTCGCAAGATTCTAAATTTTTTTTCAATTAATGGTAAC 1280
 CAATTTGATTTGATTTGTTAAAGTTCTCAAAATTTGGAAAGTTTGATCATGAATTTGTGTTTTTGAATTTTCAAGGTTCT 1360
 TGAATTAGCTGGAAACGCAGCAAGAGACAAACAAGAGACACGTAATGTTTCTCGTCAATTCAGCTTGGGTCAGAAACG 1440
 ATGAGGAGCTAAGCAAGCTTCTTTGGAGATGTGACGATTGCTAATGGAGGAGTGATGCCCTAACAATCCACAAATCTCCTTCTC 1520
 CCTAAGAAGGCTGGTCTTCAAAAGCCTCAGGAAGATTAGGTTCTTTTAAACACAAATGATATAGAACACGTCCTCTTTTGCA 1600
 TTTTTCAGGATATATTGTTGGTGTAAACAAATTTGACGCTTAGACCAACTTAATAACACATTTGCGGACGTTTTTAAATGTAATG 1680
AAAT

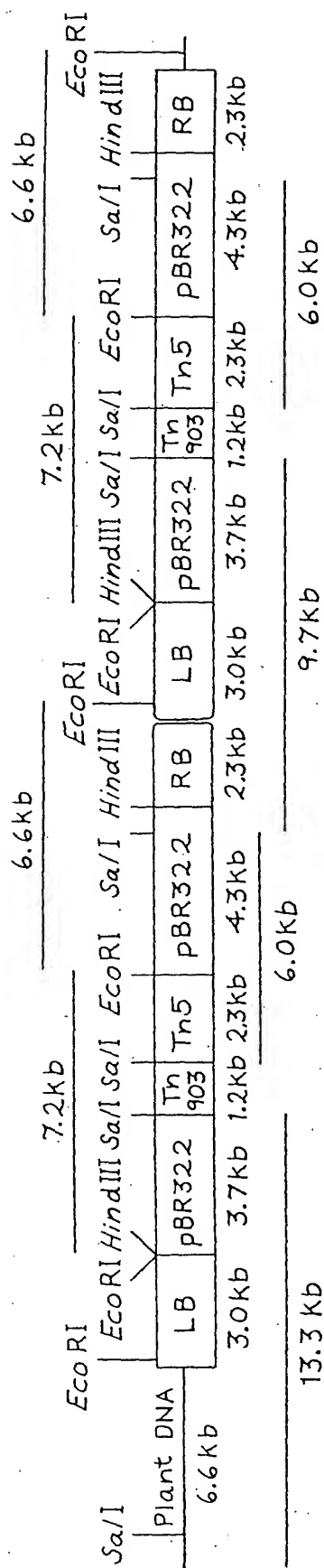
Italics → Open reading frame

Bold → Intron

Underline → T-DNA LB sequence

T-DNA insertion site

Fig. 10



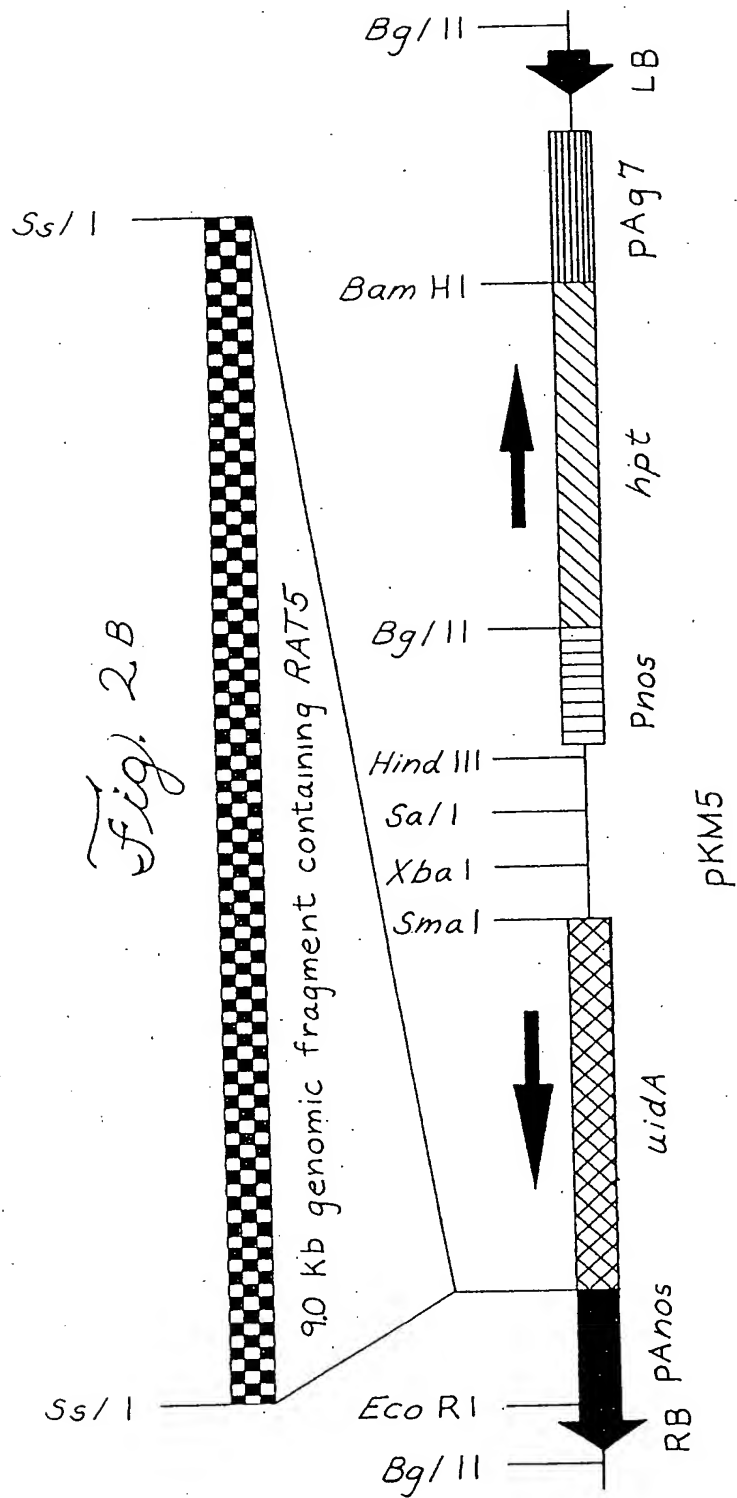
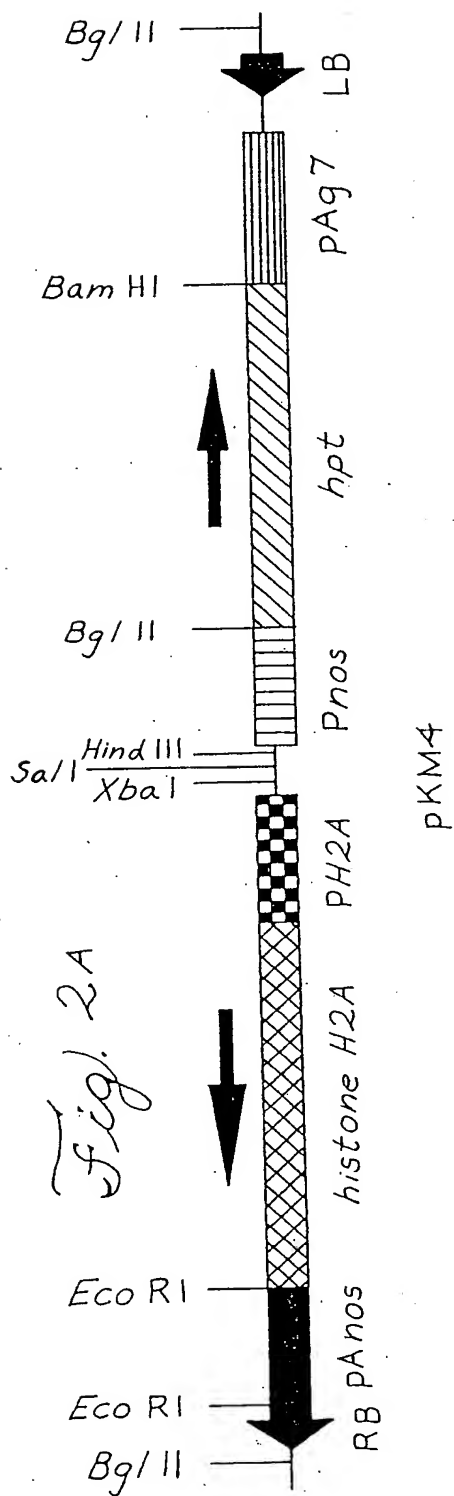
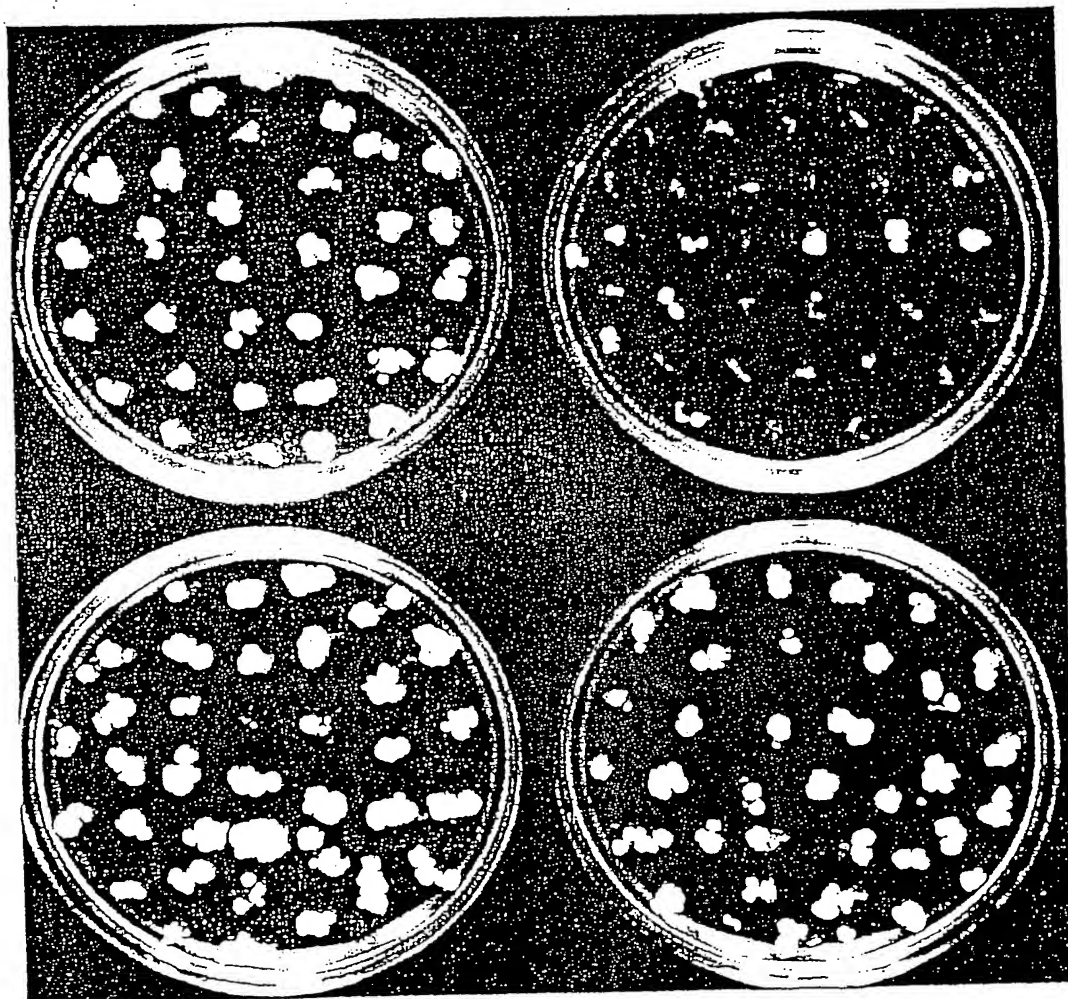


Fig. 2c

Ws

rat5

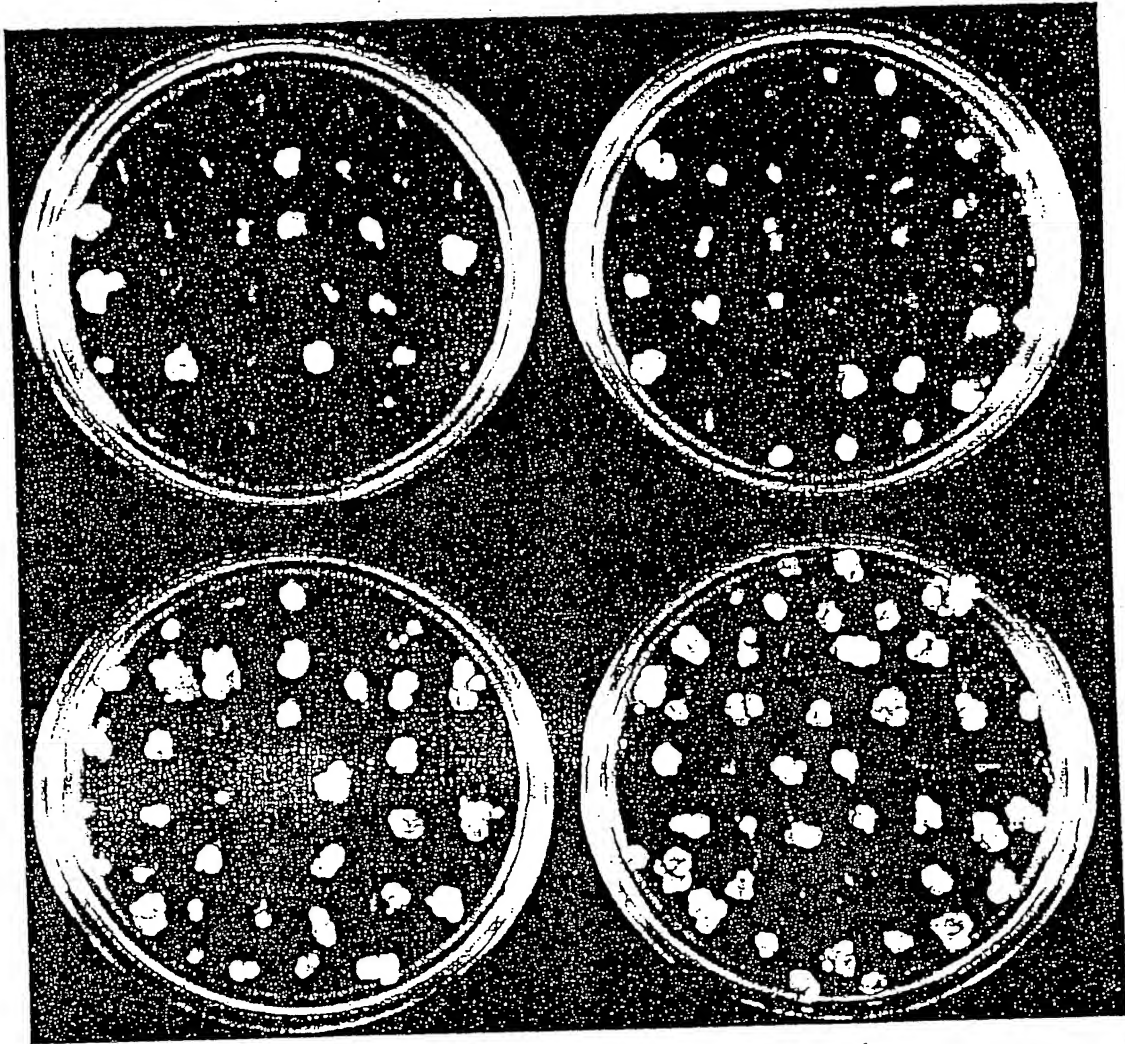


Transgenic *rat5* plants expressing
the *RAT5* histone H2A gene

Fig. 2D

Ws

Ws



Transgenic Ws plants overexpressing
the *RAT5* histone H2A gene

Fig. 3A

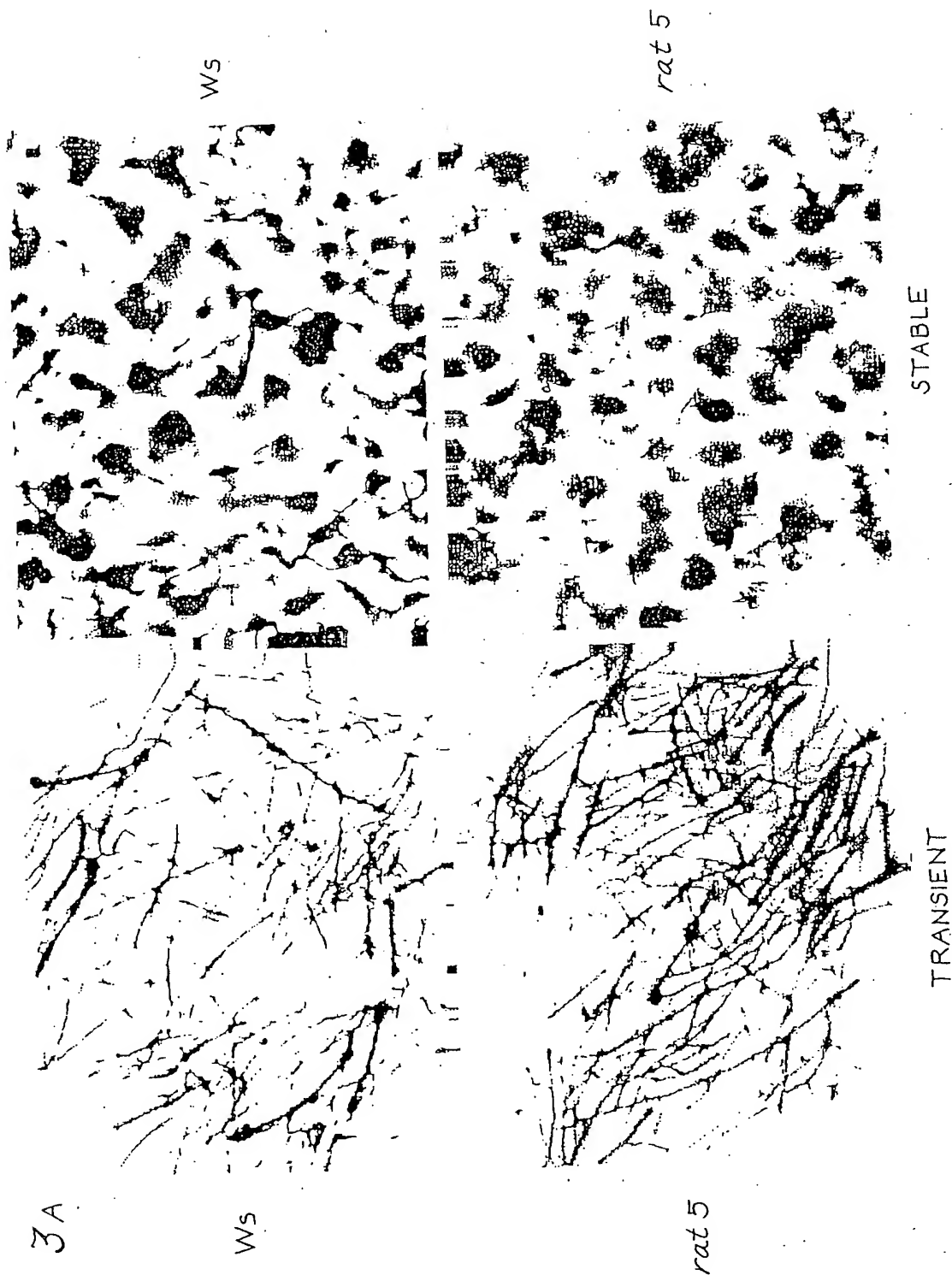
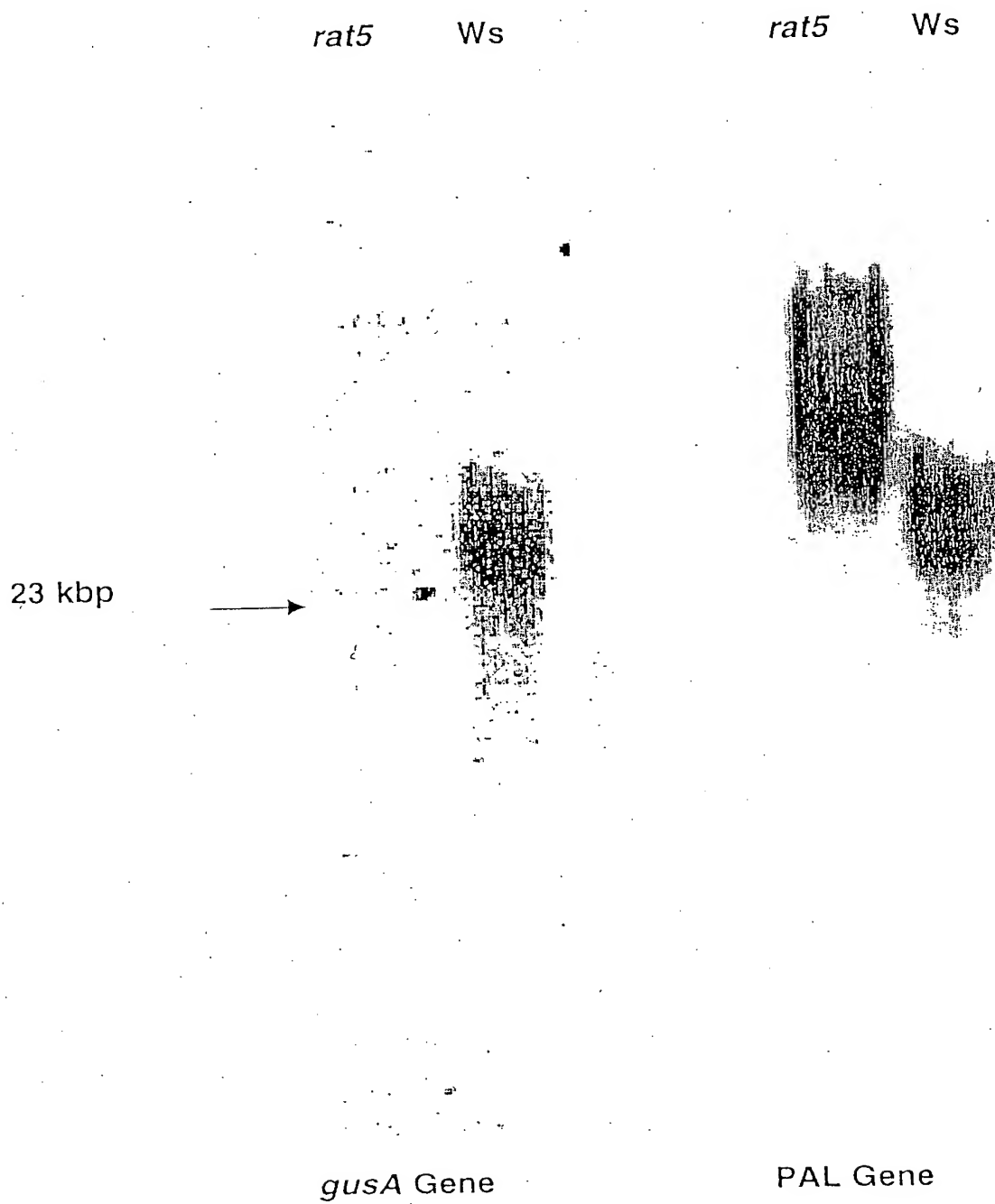


Fig. 3B



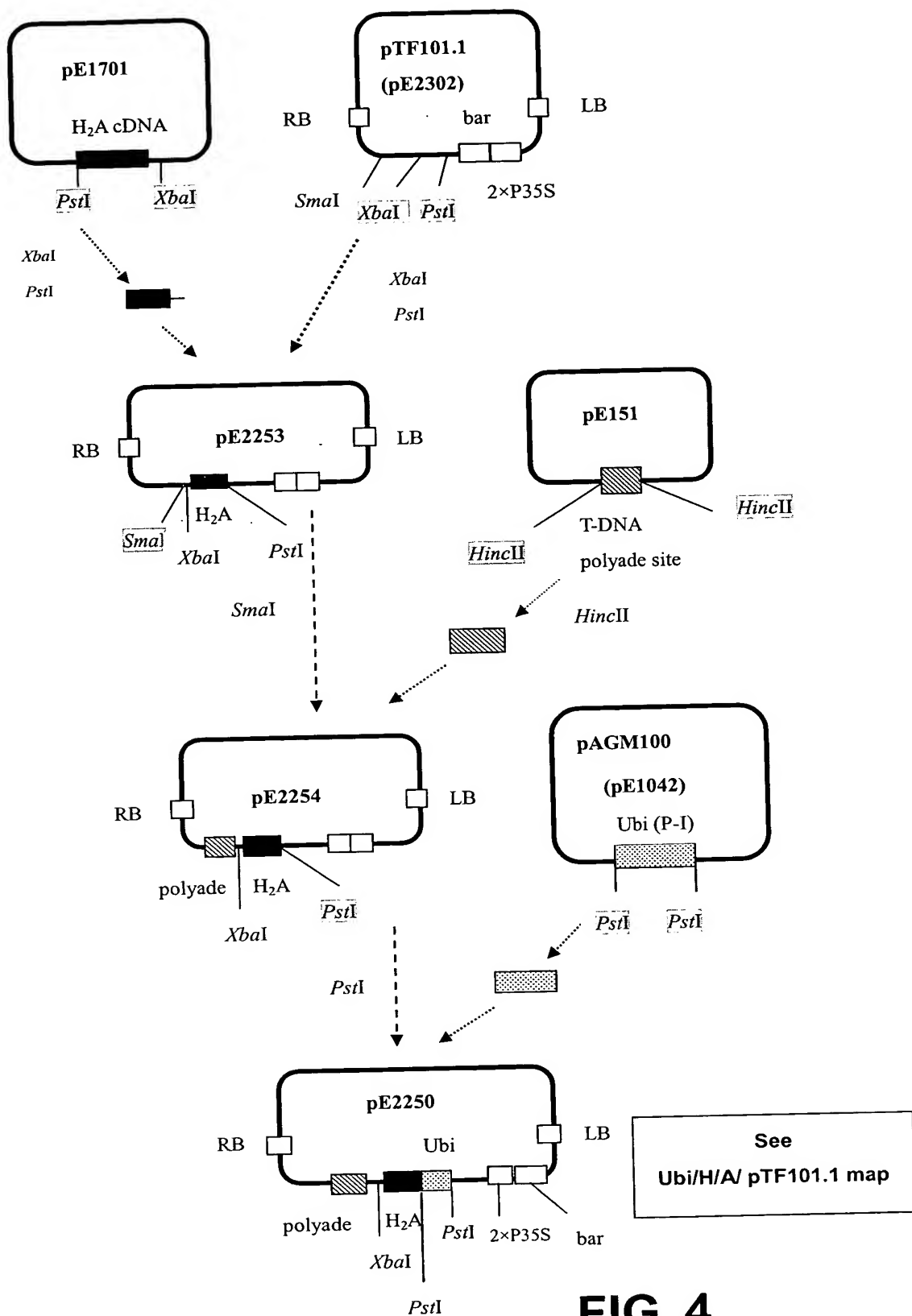
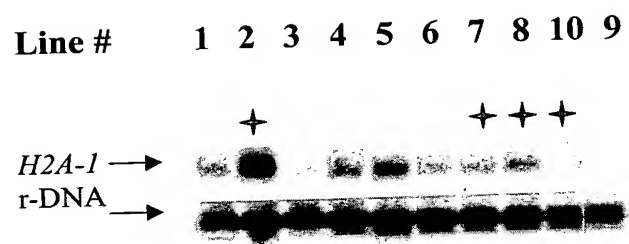


FIG. 4



✦ maize lines A10 (transgenic for E2250)

FIG. 5

HTA1 - C

TAATTTTCGTC	AAGAAAAAAA	TTCGATTTTT	TTGCGCTCTT	TGTGGGTTGT	TGTTGTTGAA
AATGGCTGGT	CGTGGAAAAA	CTCTTGGATC	CGGTGGGGCG	AAGAAAGCTA	CATCTCGGAG
TAGCAAAGCC	GGTCTTCAAT	TCCCGGTGGG	TCGTATCGCT	CGTTTCTTAA	AAGCCGGTAA
ATACGCCGAA	CGTGTGGTG	CCGGTGCTCC	GGTTTATCTC	GCCGCCGTTT	TCGAATATTT
GGCCGCCGAG	GTTCTTGAAT	TAGCTGGAAA	CGCAGCAAGA	GACAACAAGA	AGACACGTAT
TGTTCTCTCG	CACATTCAGC	TTGCGGTCAG	AAACGATGAG	GAGCTAAGCA	AGCTTCTTGG
AGATGTGACG	ATTGCTAATG	GAGGAGTGAT	GCCTAACATC	CACAATCTCC	TTCTCCCTAA
GAAGGCTGGT	GCTTCAAAGC	CTCAGGAAGA	TTAGGTCTTT	TAACACAATG	ATATAGAACA
CGTCTCTCTT	TTGGCTTTAG	ATCTAATAAC	CTAATAACTA	GCTAGATGTT	TTCACTTTTT
GSTATCTTGC	TTTTTTTAAT	TCCTTTAGGG	ATTTGTTTCT	TTCCGTTTCT	GTTTCGACAT
GTTGTTTCTG	TTTTTGTGAA	TATATGAAAG	TATTTTGC		

HTA2 - C

GAGAAATTTT	TCAGTTACGC	TTCATCCTCC	TCTAAGAGAT	CTTTTTTCTA	TCTTGGGTAG
TAGAGAGAAA	TGGCGGGTCG	GGGAAAACAA	CTTGGATCTG	GTGCAGCGAA	GAAGTCTACT
TCTCGTAGTA	GCAAGGCTGG	GCTTCAATTC	CCTGTTGGTC	GTATCGCTCG	ATTTTTGAAA
GCCGGTAAGT	ACGCCGAGCG	TGTTGGTGCC	GGAGCTCCGG	TCTATCTCGC	CGCCGTTCTT
GAATACCTCG	CCGCTGAGGT	ACTTGAGCTT	GCTGGGAACG	CAGCGAGAGA	CAACAAGAAG
ACCCGTATAG	TTCCACGACA	CATTCAGCTT	GCTGTGAGGA	ATGATGAGGA	GCTAAGCAAG
TTGCTTGGAG	ATGTGACAA	TGCTAATGGA	GGAGTGATGC	CTAACATCCA	CAATCTCCTT
CTCCCCAAGA	AGGCTGGTTC	ATCTAAGCCT	ACTGAAGAAG	ATTAGGTTCA	TTACGAAGAT
AGGGAAGCT	GGAACTGGT	TGATATCAGA	TAATGCTTAG	GATTGTTTTT	TTTTTCATTT
GCTTTTCCTC	TGCAGCAATG	GAAGCTGTGT	GGTTGTACTA	GTTGTTAAGG	TTACCTTTGT
TTCACTTTAT	GTGAATATAT	GAAGAAATTG	TTCTATTTT		

HTA3 - C

AAATCACTCC	ACTCACAAAA	TCCTCAGCCA	TCTCTAATCA	CATTTTACAA	TCGCCTCTTC
AAATTTCCCG	ATAAACAAAA	AATGAGTTCC	GGCGCCGGCA	GTGGAACAAC	TAAAGGTGGC
AGAGGAAAGC	CAAAAGCTAC	AAAGTCCGTC	TCTCGATCTT	CTAAAGCTGG	TCTTCAATTT
CCCGTTGGAA	GAATCGCTAG	ATTCCTTAAA	GCCGGTAAAT	ACGCCGAACG	TGTTGGTGCC
GGTGCTCCCG	TTTATCTCTC	CGCCGTTCTC	GAATACCTCG	CCGCTGAGGT	ATTGGAGCTA
GCTGGAAATG	CAGCAAGAGA	TAACAAGAAG	ACACGTATCG	TACCACGGCA	CATTCAGCTT
GCAGTGAGGA	ACGATGAAGA	GCTTAGTAAA	CTTCTTGGAA	GTGTAACAAT	TGCTAATGGA
GGAGTTTTGC	CCAACATTCA	TCAGACTCTT	CTCCCATCAA	AGGTTGGAAA	GAACAAAGGC
GATATCGGAT	CTGCTTCTCA	AGAGTTTTAA	TTTTATTTTT	TAGCTTGTA	CATAGACATG
GCTCTCTGTT	CCACAATAGT	TTTGGTATTT	TCATGTACT	CAAAAAGTGT	GTTTGCAAT
CCAGTAATGA	ATTCGGTTTG	AAGAAGTGAA	ATAGTTAAAT	TTGATGTGTT	GAAATAGCGG
ATTCAATGGC	TTCAATACAA	GTGCTAATAG	GTTTGGCTTT	AGCCATGGTT	TCTGCAAGTG
AGACTCTTGC	TTCTTTGTGA	GAATGTAATA	ATGAGACAGT	GTTGGAAACA	GCCCATTTGA
TATGAGCCTC	CTTTTCTGAT	T			

FIG. 6(A)

HTA4 - C

ATGGTGTGCA ACACGAATAT ACTAAAAGAT GTGTCGACGA AGATAAGTGC TTTTGAAAAT
GTTTCGGATGA TTATGGTGGA GGGAGAGATG TTTCAAGTGG CTCGTATTCA CAAGCAACTT
AAGAACAGAG TTTCTGCACA TAGTAGTGTT GGTGCGACTG ATGTTGTCTA CATGACTTCA
ATCCTTGAAT ACCTAACTAC AGAGGTTCTT CAGTTGGCCG AAAACACTAG CAAAGATTTA
AAAGTGAAGA GGATAACTCC AAGGCATTTG CAGTTGGCGA TCAGAGGAGA TGAAGAGCTT
GACACACTCA TCAAAGGAAC AATTATTGGA GGAAGTGTGA TCCCTCACAT CCACTAG

HTA5 - C

CATATAGAGA AGAGCAAAAC CCTAAAGCCC ACTCATCTTC TCAATTCCCA GATCATCTAC
AATAGTCATT TCTCTTCGAT TTCTTCAAAC TCTCATCAAA TCGTTTATCT GTTCTAAATT
TCGAAGAAGA CGATGAGTAC AGGCGCAGGA AGCGGAACAA CCAAAGGTGG CAGAGGAAAG
CCAAAGGCCA CCAAATCCGT CTCTCGATCA TCTAAAGCCG GTCTTCAATT CCCCCTCGGA
AGAATCGCTA GATTCCTCAA ATCCGGTAAA TACGCCGAGC GTGTCGGTGC CGGAGCTCCG
GTCTATCTCT CCGCTGTTCT CGAGTACCTC GCCGCCGAGG TGTGAGGCT GCGGGGAAAC
GCAGCAAGGG ATAACAAGAA GACACGTATA GTACCAAGAC ACATTCAGCT TGCAGTGAGG
AACGATGAAG AGTTAAGCAA ACTTCTGGGA AGTGTGACGA TTGCGAATGG AGGAGTTTGT
CCAAATATTC ATCAGACTCT TTTGCCATCC AAGGTTGGCA AGAACAAAGG AGATATTGGA
TCTGCTTCTC AGGAGTTCTG AGGTTCTTAG ACTTCTTAGT TCAGTTCTCT TGTGTTGATT
CGGAACCTGT AAAATAGACC CTGATGGTGT TTTTGGGGA TCAAATTAGG TTTTAAAGCT
AAGTATATTT GGCTTTTGCC TAAGTATGTT TAATTAGTGA ATGATATGAT ATTTCCGAAC
GAATCATGTA TCAATGGAA

HTA6 - C

TTAAATCACA AATCTTCAAC TTCCGATACT TTCAATCTCT CTAAACTCTC AATTTTCAGTA
ATCGATAACC GTAGCAATGG AATCCACCGG AAAAGTGAAG AAAGCTTTCG GAGGAAGAAA
ACCACCTGGT GCCCCAAAAA CCAAATCCGT TTCGAAATCG ATGAAAGCCG GTCTTCAATT
CCCAGTGGGA AGAATCACTC GTTTCCTGAA GAAAGGACGA TACGCTCAGA GACTTGGTGG
TGCTGGTCCG GTTTACATGG CCGCCGTTCT TGAATACCTC GCCGCAGAAG TTCTGGAGCT
TGCTGGTAAC GCTGCGAGAG ATAACAAGAA ATCAAGGATA ATTCCGAGGC ATCTTCTTCT
CGCGATAAGG AACGATGAAG AATTGGGGAA ACTTCTGAGT GGTGTCACAA TCGCTCACGG
TGGTGTTTTG CCTAACATCA ACTCTGTTCT ATTGCCTAAG AAGTCTGCCA CTAAACCAGC
TGAAGAAAAG GCTACCAAAT CACCAGTCAA GTCTCCAAAG AAAGCTTAAT CTGCTAGAGT
TTTCGTTGCT AGTTTGTGTT TGAGCTCTGG TGAATGTAGA AATTTGAAGC TTTTGGATCT
TAGTTTCTAT GTATTTGGTG ATTTAGAATG TTGTTCAAAA TCCTTTTCCT AATCATAAGA
ATTTATGATC TATCTATTAT ACGCTTCGTC TAATCTTTT

HTA7 - C

CAAATCGTAA ACCGCCACAA AACCGAAAAA AACACTAATT GTGCTTTCCC TTTAGATTCA
TTTGTATTTT CTTTTGGAGC TTTTGAACAA TGGAGTCATC ACAAGCAACG ACGAAGCCAA
CGAGAGGAGC AGGAGGAAGG AAAGGTGGAG ATAGGAAGAA GAGTGTTAGT AAATCTGTTA
AAGCTGGTCT TCAATTTCCC GTTGGTCGTA TCGCTCGTTA CTGAAGAAA GGTCCGTACG
CTCTCCGATA CGGTTCCGGT GTCCTGGTTT ACCTCGCCGC CGTTCTCGAA TACCTAGCCG
CCGAGGTACT TGAGCTAGCT GGGAACGCAG CGAGAGATAA TAAGAAGAAC AGGATAAACC
CTAGGCATCT ATGTTTAGCG ATAAGGAACG ATGAGGAATT GGGGAGATTG CTTATGGAG
TTACTATTGC TAGTGGTGGT GTTCTTCCAA ACATTAATCC AGTTCTTCTT CTAAGAAAT
CAACAGCTTC TTCTTCTCAA GCGGAGAAAG CTTCTGCTAC CAAATCTCCT AAGAAGGCTT
GATAAAGAAT AGTATCGATG TTGCTTTTTG GTTATATTCT GATCTTAGAT GAAGAAGAAG
AAGAAGAAGA AACAACTTGT TTTTGTGTTT AGAGGATTGG TGTAGGTATC TGAAATCTTC
TTCTCTTTGT TTTGGTTTGT CTTATGTAAA AACCATGGGA AGATGATTAT GTTTGTTAAC
GCAATTTGTA ATGGAATAA ATTAAGTTCT GGGATTAGT

FIG. 6(B)

HTA8 - C

AATTCGACGT	CTCTCTTTTG	TCTCTGTATC	GATTTTCTCG	CCGCGAATTT	CGAATAGGTT
CTTCACCATA	AGCTTGAGAT	CTTATTTCTC	TACTGTTCTT	TGCTTCTTCT	CTATCGATAT
GGCTGGTAAA	GGTGGGAAAG	GGCTTCTAGC	TGCGAAGACG	ACGGCAGCAG	CTGCAAAACAA
AGACAGTGTT	AAGAAGAAAT	CCATCTCTCG	CTCTTCTCGT	GCTGGTATTG	AGTTTCCAGT
GGGTCGTATT	CATCGTCAAC	TCAAGCAAAG	AGTTTCAGCA	CATGGAAGAG	TTGGTGCCAC
TGCTGCTGTT	TACACTGCAT	CAATTCTAGA	ATACTTGACT	GCTGAAGTAC	TCGAGTTAGC
TGGAAATGCG	AGCAAGGATC	TCAAAGTGAA	GAGAATTACA	CCAAGACATT	TGCAGCTTGC
AATCAGAGGA	GATGAGGAAC	TTGACACTCT	CATCAAAGGA	ACCATTGCAG	GAGGAGGTGT
GATCCCTCAC	ATCCACAAGT	CCCTTGTCAA	CAAAGTCACC	AAGGATTGAG	TTTCGCTCTC
TGAGTCCTAA	GTCTCTATTA	TACTATGTGC	TCTTTTCTAG	ACGCCCTCAT	GTGTATATGG
GTTCATTGTA	TCTCTTAGGT	CTCTCGTTTT	AGACTCATAC	TCTTGTTATT	TTGCTAATGC
TTACATGATT	GAGG				

HTA9 - C

ATCGGGAGAC	TCCTCTTCGA	GCTCATCTTC	TTCTCTCTCT	TTTTATCTTT	GGTTGTGCGA
TCTCCTTTCT	CTTTCAATCT	CCAAGGATTT	TACTGTGAGA	TATTTGGCGG	GAAAATGTCTG
GGGAAAGGTG	CTAAAGGTTT	GATTATGGGG	AAACCCAGCG	GTAGCGACAA	GGATAAGGAC
AAGAAGAAGC	CTATCACTCG	TTCTTCTCGA	GCTGGTCTCC	AGTTCCCAGT	TGGTAGGGTG
CATCGTCTGT	TAAAGACAAG	GTCCACTGCT	CATGGAAGGG	TTGGAGCAAC	TGCAGCTGTT
TACACAGCAG	CAATATTGGA	GTATCTGACT	GCAGAAAGTT	TGGAGTTGGC	TGGTAACGCC
AGCAAGGACT	TGAAGGTGAA	ACGTATCTCG	CCGAGGCATT	TGCAGCTTGC	GATTCGTGGA
GATGAGGAGC	TCGATACTCT	CATCAAAGGA	ACTATAGCTG	GTGGTGGAGT	CATCCCTCAT
ATCCACAAGA	GTCTCATCAA	CAAATCCGCC	AAGGAATAGG	ACTTTTTTAG	TTACCCGCTT
TGTTCTGTGT	TGCTTTTCTG	TTTTCTAAAT	GTTTTTAAGA	GTTGTTGTTT	GATAAGATGC
TAGAGAAGCT	CTTTTTAGGA	TCGTTTGCTA	TTGTTTCGTT	GATCAGCGTA	CTTTGTGTTA
GAGACGCCAG	TCGATTTATC	TATCTTTAAA	AATGTATTTC	AATGATTATC	CAAAAACCAT
TTCTGA					

FIG. 6(C)

HTA10-C

AACAACAAAT TCGATTCTTA TAACTGTTTC CCTCTCATCT TTACACAAAA GTATTCTAAT
CGATTTCAAT GCGGGGTCGT GGTA AACAC TCGGATCTGG GTCTGCGAAG AAGGCAACAA
CAAGAAGCAG CAAAGCCGGT CTCCAATTCC CTGTGGGTCG TATCGCTCGT TTCTTGAAGA
AAGGCAAATA CGCCGAACGT GTTGGTGCCG GAGCTCCGGT TTACTTAGCC GCCGTTCTCG
AATACCTCGC CGCTGAGGTA TTGGAATTGG CTGGAAACGC AGCGAGGGAT AACAAGAAGA
CGAGGATTGT TCCAAGGCAT ATTCAATTGG CGGTGAGGAA CGATGAAGAA TTGAGCAAAT
TGCTTGGAGA TGTGACTATT GCTAATGGAG GTGTGATGCC TAACATTAC AATCTTCTTC
TTCCTAAGAA GACCGGTGCT TCCAAGCCAT CTGCTGAAGA CGATTGATTA ATCAACCAAA
TCCACTCTCT TGTGTTTTTT GAGTTTTTAA GGCTTTTTAA GAGTAATTTA GATTAGATCT
ATGGTGAAGA AAGAATCTAT CTTCTGTGTT TTTTGAATTG AATTGAATGT TCATATGCTT
TCAATTTCTT ATGGAATCAA GATTTTAACT TTTCT

HTCCTTTTGCAT TCTCTCGTCG TCGTCTCAAG ATCTAGAAGA AGGAAACAAC AATTTCAAGA
GACATGGCAG GCAAAGGTGG AAAAGGACTC GTAGCTGCGA AGACGATGGC TGCTAACAAAG
GACAAAGACA AGGACAAGAA GAAACCCATC TCTCGCTCTG CTCGTGCTGG TATTCAGTTT
CCAGTTGGAC GAATTCACAG GCAACTGAAG ACCCGAGTCT CGGCACATGG CAGAGTTGGT
GCCACTGCAG CCGTCTACAC AGCTTCAATC CTGGAGTATC TGACAGCAGA GGTTCTTGAG
TTGGCTGGGA ATGCGAGCAA GGATCTCAAA GTGAAGAGGA TAACGCCAAG GCATCTGCAG
TTGGCGATTA GAGGAGATGA GGAGCTGGAC ACACTCATCA AGGGAACGAT TGCTGGAGGT
GGTGTGATCC CTCACATCCA CAAGTCTCTC ATCAACAAAA CCACCAAGGA GTGATGTGTA
GCTTTTTATG GTGTTTGTAT TTCTGTAGTC TTGGACTCAT TTTCTTTTAT CCTTTTCTTA
GTTCTTTGAC TAGTGTTGAC CTCTTCTGGA CATCCTCAGG TGTACATTAG TTAATTTGAA
CTCTTTAGGT TCCTT

HTA11-C

CCTTTTGCAT TCTCTCGTCG TCGTCTCAAG ATCTAGAAGA AGGAAACAAC AATTTCAAGA
GACATGGCAG GCAAAGGTGG AAAAGGACTC GTAGCTGCGA AGACGATGGC TGCTAACAAAG
GACAAAGACA AGGACAAGAA GAAACCCATC TCTCGCTCTG CTCGTGCTGG TATTCAGTTT
CCAGTTGGAC GAATTCACAG GCAACTGAAG ACCCGAGTCT CGGCACATGG CAGAGTTGGT
GCCACTGCAG CCGTCTACAC AGCTTCAATC CTGGAGTATC TGACAGCAGA GGTTCTTGAG
TTGGCTGGGA ATGCGAGCAA GGATCTCAAA GTGAAGAGGA TAACGCCAAG GCATCTGCAG
TTGGCGATTA GAGGAGATGA GGAGCTGGAC ACACTCATCA AGGGAACGAT TGCTGGAGGT
GGTGTGATCC CTCACATCCA CAAGTCTCTC ATCAACAAAA CCACCAAGGA GTGATGTGTA
GCTTTTTATG GTGTTTGTAT TTCTGTAGTC TTGGACTCAT TTTCTTTTAT CCTTTTCTTA
GTTCTTTGAC TAGTGTTGAC CTCTTCTGGA CATCCTCAGG TGTACATTAG TTAATTTGAA
CTCTTTAGGT TCCTT

FIG. 6(D)

HTA12-C

ATGGATTCCG GAACCAAAGT GAAGAAAGGA GCCGCTGGAA GAAGAAAGTGG TGGAGGTCCT
AAGAAGAAAC CGGTTTCCCG TTCGGTTAAA TCCGGTCTAC AGTTTCCTGT CGGTAGGATC
GGTCGGTATC TTAAGAAAGG TCGTTATTCTG AAGCGTGTCTG GAACCGGAGC TCCGGTCTAT
CTCGCCGCCG TCCTCGAGTA TCTTGCTGCT GAGGTTCTCG AGCTTGCTGG TAACGCTGCA
AGAGATAACA AAAAGAACCG TATTATACCA CGCCATGTTT TATTAGCGGT GAGGAACGAC
GAGGAGCTAG GGACACTACT CAAAGGCGTA ACCATTGCAC ACGGCGGTGT TTTACCAAAC
ATAAACCCAA TACTCCTCCC AAAGAAGTCT GAGAAAGCAG CTTCAACTAC AAAAACACCC
AAATCACCAT CAAAGGCAAC CAAATCCCCT AAGAAATCTT AGTACTTCTT TCTTCATTCC
TCTGTATAAC CTACTGTTTC TATCTCTCTG TACGTTTCTC TGTAAGACA GAACAGAATA
TCTCTTTGTT GTTGTGAGAA AGCTTAGTTT CTCTGATCGT CGTTGTGAAA TAAAAAATGC
AACGTTTCAT AT

HTA13-C

ATCTTAATTT CCCTCGCATT GAGAATTTTC AACTTTTTCT ATCTCTCTTC CCAAATCACA
AATGGCGGGT CGCGGCAAAA CTCTCGGATC TGGCGTTGCT AAGAAATCAA CATCGAGAAG
CAGCAAAGCC GGTCTCCAAT TCCCGTTGG TCGTATCGCT CGTTTTCTAA AGAACGGCAA
GTACGCAACA CGTGTGGTG CCGGAGCTCC GGTTTACTTA GCCGCCGTTT TCGAATACCT
CGCCGCTGAG GTATTGGAAT TGGCTGGAAA CGCAGCTAGG GATAACAAGA AGACTAGGAT
TGTGCCACGT CACATTCAGC TCGCGGTGAG AAACGATGAG GAGCTGAGTA AACTGCTTGG
AGATGTGACG ATTGCTAATG GAGGTGTGAT GCCTAACATT CACAGTCTTC TTCTTCCCAA
GAAAGCTGGT GCTTCAAAAC CTTCCGCTGA TGAAGATTAG ATTAGGGATT TGTGTTGTGG
TTGTTTAGCT AATTAATGTG TAGCTTAGTC TTTCATTAGA TTAGATCTGA ATTAGTTTTC
ATTAATGGTG TTGTGTAGTC TCTCTTTTGC TTCAAAAACA AGTATTAAAA TC

FIG. 6(E)

HTA1-P

MAGRGTGLGS GGAKKATSRS SKAGLQFPVG RIARFLKAGK YAERVGAGAP VYLAADVLEYL
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHNLLLPK
KAGASKPQED

HTA2-P

MAGRGTGLGS GAAKKSTSRs SKAGLQFPVG RIARFLKAGK YAERVGAGAP VYLAADVLEYL
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHNLLLPK
KAGSSKPTEE D

HTA3-P

MSSGAGSGTT KGGRGKPKAT KSVSRSSKAG LQFPVGRIAR FLKAGKYAER VGAGAPVYLS
AVLEYLAAEV LELAGNAARD NKKTRIVPRH IQLAVRNDEE LSKLLGSVTI ANGGVLPNIH
QTLPLSKVGK NKGDIGSASQ EF

HTA4-P

MVCNTNLIKD VSTKISAFEN VRMIMVEGEM FQVARIHKQL KNRVSAHSSV GATDVVYMTS
ILEYLTTEVL QLAENTSKDL KVKRITPRHL QLAIRGDEEL DTLIKGTIIG GSVIPHIH

HTA5-P

MSTGAGSGTT KGGRGKPKAT KSVSRSSKAG LQFPVGRIAR FLKSGKYAER VGAGAPVYLS
AVLEYLAAEV LELAGNAARD NKKTRIVPRH IQLAVRNDEE LSKLLGSVTI ANGGVLPNIH
QTLPLSKVGK NKGDIGSASQ EF

HTA6-P

MESTGKVKKA FGGRKPPGAP KTKSVSKSMK AGLQFPVGRI TRFLKKGRYA QRLGGGAPVY
MAADVLEYLA AEVLELAGNA RDNKKSRIIP RHLLLAIRND EELGKLLSGV TIAHGGVLPN
INSVLLPKKS ATKPAEEKAT KSPVKSPKKA

HTA7-P

MESSQATTKP TRGAGGRKGG DRKKSVSksv KAGLQFPVGR IARYLKKGRY ALRYGSGAPV
YLAADVLEYLA AEVLELAGNA ARDNKKNRIN PRHLCLAIRN DEELGRLLHG VTIASGGVLP
NINPVLLPKK STASSSQAEK ASATKSPKKA

HTA8-P

MAGKGGKGLL AAKTTAAAN KDSVKKKSIS RSSRAGIQFP VGRIHRQLKQ RVSAHGRVGA
TAAVYTASIL EYLTAEVLEL AGNASKDLKV KRITPRHLQL AIRGDEELDT LIKGTIAGGG
VIPHIKSLV NKVTKD

HTA9-P

MSGKGAKGLI MGKPSGSDKD KDKKKPITRS SRAGLQFPVG RVHRLKTRs TAHGRVGATA
AVYTAAILEY LTAEVLELAG NASKDLKVKR ISPRHLQLAI RGDEELDTLI KGTIAGGGVI
PHIHKSLINK SAKE

FIG. 7 (A)

HTA10-P
MAGRGKTLGS GSAKKATTRS SKAGLQFPVG RIARFLKKGK YAERVGAGAP VYLAADVLEYL
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHNLLLPK
KTGASKPSAE DD

HTA11-P
MAGKGGKGLV AAKTMAANKD KDKDKKKPIS RSARAGIQFP VGRIHRQLKT RVSAHGRVGA
TAAVYTASIL EYLTAEVLEL AGNASKDLKV KRITPRHLQL AIRGDEELDT LIKGTIAGGG
VIPHIHKSLL NKTKE

HTA12-P
MDSGTKVKKG AAGRRSGGGP KKKPVSRSVK SGLQFPVGRI GRYLKKGRYS KRVGTGAPVY
LAADVLEYLAA EVLELAGNAA RDNKKNRIP RHVLLAVRND EELGTLLKGV TIAHGGVLPN
INPILLPKKS EKAASTTKTP KSPSKATKSP KKS

HTA13-P
MAGRGKTLGS GVAKKSTSRs SKAGLQFPVG RIARFLKNGK YATRVGAGAP VYLAADVLEYL
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHSLLLPK
KAGASKPSAD ED

FIG. 7 (B)

HTA1-g

ctcacttttaa cattttttata tagtgacatt ttttagtaatc caacgttatt tatatgatta
gtaattcatc aaattttatat agtgataaaa ttccacaatg gttgttcaat aaaaatatga
acaacacaat agaattagta aaagtgacta tgttaaatca ttttcttcgc tggggtttgg
tgggcgagtt ctaaaccat aagcggccca tttacttcgt aaactcaatt cgatttgttc
agcgttccaa gcccataata ttattttcaa gggcataaaa taaattgagg tttatatgga
aaatttgga attccctcgt ccagaagaaa ccaacaaaaa ctgcaaaagt tcaagcggtg
ggagaaaaaa cttcagatcg tagccattca ttaaattata atcaacggtt taaacctctt
cgatccgcgt actctattct tattggtcaa ataacttaat cctccaacat atataaaca
caatcagatt tctctctgtT AATTTCGTCA AGAAAAAAT TCGATTTTTT TGCGCTCTTT
GTGGGTGTT GTTGTTGAAA ATGGCTGGTC GTGGAAAAAC TCTTGGATCC GGTGGGGCGA
AGAAAGCTAC ATCTCGGAGT AGCAAAGCCG GTCTTCAATT CCCGGTGGGT CGTATCGCTC
GTTTCTTAAA AGCCCGTAAA TACGCCGAAC GTGTTGGTGC CGGTGCTCCG GTTTATCTCG
CCGCCGTTCT CGAATATTTG GCCGCCGAGg taaaattaca tcgtcttttc tctctttccc
attccgtttc cgatcttatt cgtctgactc tgtttttgcg tgatcgatta cgaatctagg
gttcttacat tttccgaatt tgacatgcaa aaattgaatt agattcgtgt ttgaattgaa
ttgttgtagt tctgtaattg acctaatTTT ggggttggtc tgattgggtg atggtaatcg
agatcatatg aatcgttgta gttttctcgc aagattctaa atttttttca attatggtaa
ccaatttgat ttgagttggt aaagtctca aatttggaat gtttgatcat gaattgtgtg
ttttgaattt gttcagGTTC TTGAATTAGC TGGAAACGCA GCAAGAGACA ACAAGAAGAC
ACGTATTGTT CCTCGTCACA TTCAGCTTGC GGTGAGAAAC GATGAGGAGC TAAGCAAGCT
TCTTGGAGAT GTGACGATTG CTAATGGAGG AGTGATGCCT AACATCCACA ATCTCCTTCT
CCCTAAGAAG GCTGGTGCTT CAAAGCCTCA GGAAGATTAG GTCTTTTAAC ACAATGATAT
AGAACACGTC TCTCTTTTGG CTTTAGATCT AATAACCTAA TAACTAGCTA GATGTTTCA
CTTTTGTAT CTTTGCTTTT TTTAATTCCT TTAGGGATT TTTTCTTTCC GTTCTGTTT
CGACATGTTG TTTCTGTTTT TGTGAATATA TGAAAGTATT TTGCgaaata tgaatgataa
tgtctttcaa aaatgctgat gccttattca acaagcaaac actgcacttt gtagaagtat
aaagattttc tttgttggtg atagtaatag tacaagaaag aaaaaaacac aaaggattat
tattctatgg ccaacaagat tgaaaaaata tgaaaagaaa gtatttctaa gactaaa

FIG. 8 (A)

HTA2-G

tgtggctttt	cagccaccac	aatatgtcat	acaacttgca	actgttatta	tccaaattta
aacccacata	aagaatacgt	ctaaaaagca	aacaataatc	attacaacac	ttagtaagtt
ataactttct	cctaactttct	ttgaaatttt	gataaaaagg	aaaatacata	tgtacaagaa
gtgaagaaac	aattttatttg	ggccgaacag	tgttaaattt	tgggccagat	aacgttaaaa
taaaaaggag	tattttctatt	taacaagccc	aatatagccc	atataacaat	ccattgaaat
catcggagaa	ccaaaaaaaag	gacaaagcag	gtgggcgcac	gaatctcaaa	tcacgtccct
taaaacttgta	acaatctgac	ggtgtagatt	atcgatccat	gcagtgtcat	atcattggtc
agaaatattt	tctatctcgc	cactatatta	atcatcatgg	cgggtttcgc	tgatactcat
tattgttatt	tttgacagaG	AGAAATTTCT	CAGTTACGCT	TCATCCTCCT	CTAAGAGATC
TTTTTTCTAT	CTTGGGTAGT	AGAGAGAAAT	GGCGGGTCGG	GGAAAACAAC	TTGGATCTGG
TGCAGCGAAG	AAGTCTACTT	CTCGTAGTAG	CAAGGCTGGG	CTTCAATTCC	CTGTTGGTCG
TATCGCTCGA	TTTTTGAAAG	CCGGTAAGTA	CGCCGAGCGT	GTTGGTGCCG	GAGCTCCGGT
CTATCTCGCC	GCCGTTCTTG	AATACCTCGC	CGCTGAGgta	atcagtctct	tctattttatc
acctgtttta	tttactcttt	ttaccgaatt	aaatggttat	agcttgcac	tagggttctg
gatttttagat	tttcttacct	ctttcgttaa	attatgcgaa	atttggaata	ttttagaatg
cattagttcc	ttagtttggt	tttttcttgg	gaaaaattgt	ccattttttt	tgtgtagttt
tgagctcaat	ttgtgtttct	ttgtgctcat	catgcttatt	gaaattaggg	ttaaatttgt
tccttactac	tttgagttat	catagttggc	actgattgat	actgtcaatt	gtgttctcaa
attcgaaaaa	tgttgttggt	cacttagttt	tgtctttgga	tatgtgaaca	tgtctgcttg
ggaactgaat	ttggtgcgct	cactttctat	agGTACTTGA	GCTTGCTGGG	AACGCAGCGA
GAGACAACAA	GAAGACCCGT	ATAGTTCCAC	GACACATTCA	GCTTGCTGTG	AGGAATGATG
AGGAGCTAAG	CAAGTTGCTT	GGAGATGTGA	CAATTGCTAA	TGGAGGAGTG	ATGCCTAACA
TCCACAATCT	CCTTCTCCCC	AAGAAGGCTG	GTTTCATCTAA	GCCTACTGAA	GAAGATTAGG
TTCATTACGA	AGATAGGGAA	AGCTGGAAAC	TGGTTGATAT	CAGATAATGC	TTAGGATTGT
TTTTTTTTTC	ATTTGCTTTT	CCTCTGCAGC	AATGGAAGCT	GTGTGGTTGT	ACTAGTTGTT
AAGGTTACCT	TTGTTTCACT	TTATGTGAAT	ATATGAAGAA	ATTGTTCTAT	TTCAgtcttg
actccacttc	tttagcattg	ttcactgatt	catttgttgt	tcctgaaagt	caatttaaatt
tccttcgata	agctacacga	aactgcacac	atagtcacat	gtaacttggt	tttaaacttt
ttgttttggt	ttgttttttg	ttgaaaactc	gagaaaaaaa	gaatcagtag	accataatc
acagaaaagt	caagccacca	agcgattcga	catagacagt	ggagaagtga	cgagattgag
agaatcgagg	cgagagagag	agagagacag	ggacgattcg	gtttagagct	ctcgtatgag
gtatatattca	atttcgtttt	cggcgatatc	ttgtgtcgca	aat	

FIG. 8 (B)

HTA3-G

```
gtttgacttt ataaaaacat gcagaaatgt acaaagaata tatacatata attatcttaa
ttaatttaaat aactatcaat ctgtcatact acaccactat caatctatca tcatcaccac
cattatgctt gacagtcact ttttagttgg cccatgttaa agctgtttgt gttatttggt
attgggctta tccttcacta ccatttgatt gaaattttatc tcatgaccga acaaattgag
ctaatttcgg ttcaacattg gatgttaatt ttttttcaaa ccgaaccgaa ttatagtttt
ggtgcatttt ttctaaaccg aattttaaca caaatagtaa tcgtcttaaa aaattcaccg
acttgttaaa aagaggcgga aaaaaaaacc cgcgagaact tacaatgggtg ccacgctggc
aatccgctg actcacaact aaccaatcaa aatccattat ctcaacgcta tatatttcag
aaatcacaac cttaaaccctA AATCACTCCA CTCACAAAAT CCTCAGCCAT CTCTAATCAC
ATTTTACAAT CGCCTCTTCA AATTTCCCGA TAAACAAAAA ATGAGTTCCG GCGCCGGCAG
TGGAACAAC AAAGGTGGCA GAGGAAAGCC AAAAGCTACA AAGTCCGTCT CTCGATCTTC
TAAAGCTGGT CTTCAATTTT CCGTTGGAAG AATCGCTAGA TTCCTTAAAG CCGGTAAATA
CGCCGAACGT GTTGGTGCCG GTGCTCCCGT TTATCTCTCC GCCGTTCTCG AATACCTCGC
CGCTGAGgt acaaacaatc ttctgtttgg tatttagtct tttagtctct atgatgagaa
tcactcgtaa ttgatataat actagatttt tcgatgttta ccgaatcttt gattttgatt
tgatgttaag gtgtcttcta gagtctgatc tcttatatga tgttgatata atcattagGT
ATTGGAGCTA GCTGGAAATG CAGCAAGAGA TAACAAGAAG ACACGTATCG TACCACGGCA
CATTGAGCTT GCAGTGAGGA ACGATGAAGA GCTTAGTAAA CTTCTTGGA GTGTAACAAT
TGCTAATGGA GGAGTTTTC CCAACATTCA TCAGACTCTT CTCCCATCAA AGGTTGGAAA
GAACAAAGGC GATATCGGAT CTGCTTCTCA AGAGTTTAA TTTTATTTT TAGCTTGTA
CATAGACATG GCTCTCTGTT CCACAATAGT TTTGGTATTT TCATGTTACT CAAAACTGT
GTTTGCAAAT CCAGTAATGA ATTTCGGTTT AAGAAGTGAA ATAGTTAAAT TTGATGTGTT
GAAATAGCGG ATTCAATGGC TTCAATACAA GTGCTAATAG GTTTGGCTT AGCCATGGTT
TCTGCAAGTG AGACTCTTGC TTCTTTGTGA GAATGTAATA ATGAGACAGT GTTGAAACA
GCCCATTGTA TATGAGCCTC CTTTTCTGAT Tctgtgaagc cgagccaccg cagaacatcg
ttcaactgca acactcaaat ctcaaaaaat acattagaag attatagtct catgactatg
agtggaagga gacttgagtt tgtattacct tgacaatatc tgagtatag
```

FIG. 8 (C)

HTA4-G

ttaagactga	taagtatcaa	caagcgaagt	tttgatttgc	ttggtgaagc	tagtctcgga
cttcaaata	cacttgatat	gttcatacat	gtaacatgtg	aagaagaact	tattttggaa
cccaaagaca	tgaatagttt	gaaaaccttt	ctcatgagaa	tatgcaatgt	taagatcttt
tacttgctct	atgacactct	ataggtcagt	cccatctttt	ttgttaaagt	ttacaattga
caattagtta	gtgatgatata	agttaaacttg	gtttttgttt	cacgaactta	atgactgaag
ttaaacaata	cagggtattca	acaacctgat	tcagttaact	atgttgccat	gtatagagag
ggaatcactg	ccaaatctac	tcaagaatth	tccaaatcta	gaaaccttct	tctatgaagt
aacatacaca	ttcttgatat	taacaactga	catgatttta	cacagtaata	aattttgaaa
cggctctcatt	ttatgtttcA	TGGTGTGCAA	CACGAATATA	CTAAAAGATG	TGTCGACGAA
GATAAGTGCT	TTTGAAAATG	TTCGATGAT	TATGGTGGAG	GGAGAGATGg	tatgatagga
gaagtctttt	gctcatagaa	gtagagtgtc	aacagttcac	aatgacttta	caatctatgt
ggctccttga	aacaataaac	tatggatgtg	cataactaat	ggacaatctt	cataatttagg
aatgactaaa	atatcttaac	taatgcttaa	acactcatgt	gtcaccaaat	aacaatacat
ggaacatgag	tgtcaataat	gaccttgat	tgtaatgggt	cgctggttta	gttgaagttc
cagtagcaca	taccgaaact	acattccttt	tttatggagt	aattctgttt	taggatattt
ttaggggttt	tggattttgt	ataagacaaa	aaaaaacaca	aacacaataa	gctacttaac
tagaaaataa	catcatcata	taatttgact	aaataaacia	atcacttctt	cgtgggtttg
ttgatgagag	acatgtggat	gtgagagact	actccttatc	caccaattgt	tactttgata
aatggatcaa	gatccctatc	tcctgcgatc	accaactata	aatgcattag	agtaatcctc
tttattttct	tatcattgat	tgtgtttttc	ggtaactcaa	taacctatga	agttaggcac
tctaggattg	aagccatgta	gtcaacaaca	atagcaccaa	gtcgaccatg	ttgtagatac
tctagtcttg	agttgcatgt	gaatacgacc	cactagaaat	tgaaataaac	aaagaaattt
cattttttgt	agtataattt	gataaaaattt	tatactgata	ttgtttcttt	gtttctttca
gTTTCAAGTG	GCTCGTATTC	ACAAGCAACT	TAAGAACAGA	GTTTCTGCAC	ATAGTAGTGT
TGGTGC GACT	GATGTTGTCT	ACATGACTTC	AATCCTTGAA	TACCTAACTA	CAGAGGTTCT
TCAGTTGGCC	GAAAACACTA	GCAAAGATTT	AAAAGTGAAG	AGGATAACTC	CAAGGCATTT
GCAGTTGGCG	ATCAGAGGAG	ATGAAGAGCT	TGACACACTC	ATCAAAGGAA	CAATTATTGG
AGGAAGTGTG	ATCCCTCACA	TCCACTAGtc	tcatacaaaa	aacaaccaag	gagtgtattg
tttcttaagt	taactaatat	gatgtgatata	gctagttaag	tagcttatgg	tgtttcagtt
actctagttt	tggatcggag	aagtagttta	agtgttaagt	cttgagacat	cataatttta
cgtctcatct	cgtaaacgat	aggagaagtt	ctttgctcct	agagttttgg	tgctaaacaa
ttcacagtga	tatgcattcc	atgtggctcc	ttaaaacact	caaccatgca	tgcaacaagca
gtggaccatc	ttcatattca	tgactgacta	aaatattgtc	atcaatgctt	actaatatgt
caaattgtag	taactcgggtg	gtttaattga	agtttcattg	ttatatatat	ggcgtatagg
cctaaagttg	tatgaagttt	tgattgatga	gttaagacat	cgtattatat	aaagtaggat
tttcaagtta	ctaactcaac	tgattaagac	acaagtcaag	tactttga	

FIG. 8 (D)

HTA5-G

```
agtaaaagga gatgtacgaa ccatagatca cataataatt gaaagggtag atgatctgcc
acgttggcaa tccgtgtgat ctaaagtcta acaaatcaca atcaatctta gtagcctata
tattgattta ttcttgttgc ttgatcaata aaggttacat catagaacta aaatcatatg
aaaccgaatc gatcaaccct ggccatcttt taaataacca tcaatacatt gggatgatca
atccacaata aatgtattga tgtaaattaa aaatatgaac ttgtaacaga tcaagattca
gggtctaaaa ttatagaaaag cttaataatg gaggactatt tcactaaaat cacttttcgt
ttgtacatta ttttcaaaaa gtaaaaggag atgtacgaac catagatcac ataataattg
aaagggtaga tgatctgcc a cgttggcaat ccgtgtgatc taaagtctaa caaatcacia
tcaatcttag tagcctataC ATATAGAGAA GAGCAAAACC CTAAAGCCCA CTCATCTTCT
CAATTCCCAG ATCATCTACA ATAGTCATTT CTCTTCGATT TCTTCAAAC CTCAATCAAAT
CGTTTATCTG TTCTAAATTT CGAAGAAGAC GATGAGTACA GGCGCAGGAA GCGGAACAAC
CAAAGGTGGC AGAGGAAAGC CAAAGGCCAC CAAATCCGTC TCTCGATCAT CTAAAGCCGG
TCTTCAATTC CCCGTCGGAA GAATCGCTAG ATTCTCATA TCCGGTAAAT ACGCCGAGCG
TGTCGGTGCC GGAGCTCCGG TCTATCTCTC CGCTGTTCTC GAGTACCTCG CCGCCGAGgt
aatttatttt tcttgtcttc caatttggtt ttcaatttcg atttggtcac atctgaattg
gatcttgtac tgatttgatt ttgatttggt ttgggttgat agGTGTTGGA GCTGGCGGGA
AACGCAGCAA GGGATAACAA GAAGACACGT ATAGTACCAA GACACATTCA GCTTGCAGTG
AGGAACGATG AAGAGTTAAG CAAACTTCTG GGAAGTGTA CGATTGCGAA TGGAGGAGTT
TTGCCAAATA TTCATCAGAC TCTTTTGCCA TCCAAGGTTG GCAAGAACAA AGGAGATATT
GGATCTGCTT CTCAGGAGTT CTGAGGTTCT TAGACTTCTT AGTTCAGTTC TCTTGTTTGG
ATTTCGGAAC TGTAAAATAG ACCCTGATGG TGTTTTTTGG GGATCAAATT AGGTTTTTAA
GCTAAGTATA TTTGGCTTTT GCCTAAGTAT GTTTAATTAG TGAATGATAT GATATTTCCG
AACGAATCAT GTATCAATGG AActgaatta atcgatatat caaccagaa acattttgaa
acacaaacta tgcataactg attcttttatt gcagatacat gcaactcatg gagcctaata
ctaaacattg ctttgatcat gtttcaattt aaccagactc attttttaat tcaaccaggg
agtaaaactc attaggtttt gggcctaact gcctcagtca tggtaatcct gaattaactt
cactaagtta ccctcatctg ttggttcgca cctgaattag ctcgctaaat taccttcatc
t
```

FIG. 8 (E)

HTA6-G

```
gtctataaac tattaaactc taggggtttaa tatgtacaaa ttctcttagg ctacttttga
ttaggactcc cttgtgaatg tcaaaacata atgcgacccc aaaatatctt tataagtata
attgttaatc ttttgattct aaaatatgtt tcattgtttt ccaattaggg cttcaaagac
tcttgagaag catcattaaa catttaaatg tcaatgacta actttacatt taacatatata
ttaatctacc gaaaattagt gtaagttgca agaaattatc caaaaaccca aaataaagca
agcgctaaac ttttaaaatg ctacaaaaaa actggcgccg tttcaaaaag catacctctt
tttgattggg taatacatag tcacgcggat cgtgctttat ttgaacatcc accgtcgata
gactaaatcc aacggataat aatcctctcc cttctttttt tttcattttac ctataaatat
cacagagtac ccttcaactT TAAATCACAA ATCTTCAACT TCCGATACTT TCAATCTCTC
TAAACTCTCA ATTTTCAGTAA TCGATAACCG TAGCAATGGA ATCCACCGGA AAAGTGAAGA
AAGCTTTTCGG AGGAAGAAAA CCACCTGGTG CCCCCAAAAAC CAAATCGGTT TCGAAATCGA
TGAAAGCCGG TCTTCAATTC CCAGTGGGAA GAATCACTCG TTTCTGAAG AAAGGACGAT
ACGCTCAGAG ACTTGGTGGT GGTGCTCCGG TTTACATGGC CGCCGTTCTT GAATACCTCG
CCGAGAAgt aagtgtttcc cgatctggat tttctagtaa gatttttttt ttacatttca
aaatcaatth tctgattcga atttattgat ctcagGTTCT GGAGCTTGCT GGTAACGCTG
CGAGAGATAA CAAGAAATCA AGGATAATTC CGAGGCATCT TCTTCTCGCG ATAAGGAACG
ATGAAGAATT GGGGAAACTT CTGAGTGGTG TCACAATCGC TCACGGTGGT GTTTTGCCTA
ACATCAACTC TGTTCTATTG CCTAAGAAGT CTGCCACTAA ACCAGCTGAA GAAAAGGCTA
CCAAATCACC AGTCAAGTCT CCAAAGAAAG CTTAATCTGC TAGAGTTTTT GTTGCTAGTT
TGTGTTTGAG CTCTGGTGAA TGTAAGAAAT TGAAGCTTTT GGATCTTAGT TTCTATGTAT
TTGGTGATTT AGAATGTTGT TCAAAATCCT TTTCTAATC ATAAGAATTT ATGATCTATC
TATTATACGC TTCGTCTAAT CTTTtggtcc actcgtcgta atgtcattag tgaatattta
ataaacaact ttgtcatcga cattaacgaa ccctttttatt cgctgtgcta aatttttctt
ttaggtgaag ccaaactctaa catgttctct tctctctttg ttcgttgtaa ttccataaca
tctccattac gatgttttgc gattcgagga tcttgttcta aattatt
```

FIG. 8 (F)

HTA7-G

cgtgggtatat	acatacacgt	cgttctttcc	tcattttaag	tcttcatttg	tcattggagct
tagaagatta	cagttgaata	tcttaaactc	tctttcttaa	tcacattttt	tgtacttatt
acactaatta	aaaccagagt	ttgggtaata	atttttgttt	ccttaatttt	ccgaattatc
cgctaatttt	ctactctaata	tctctggata	ttttaaataa	tagtaataat	ctgctgtcaa
aataagataa	gaaaaagaca	taaagctgat	tatcttgtag	aacgtgtggg	gaatgaatct
aacggctgat	atcactcaag	tgttcttttc	caccttcctt	ttacaacacc	cacgtgtaat
gtcatacaaa	gaagtcatta	cgaccgtag	atcaaagcca	acaagatcca	atcttaacgg
ctaagataaa	ttactacacg	gatcgccaac	gtggcaatac	gtggtatata	catacacgtc
gttcttttct	cattttaagC	AAATCGTAAA	CCGCCACAAA	ACCGAAAAAA	ACACTAATTG
TGCTTTCCCT	TTAGATTCAT	TTGTATTTTC	TTTTGGAGCT	TTTGAACAAT	GGAGTCATCA
CAAGCAACGA	CGAAGCCAAC	GAGAGGAGCA	GGAGGAAGGA	AAGGTGGAGA	TAGGAAGAAG
AGTGTTAGTA	AATCTGTAA	AGCTGGTCTT	CAATTTCCCG	TTGGTCGTAT	CGCTCGTTAC
TTGAAGAAAG	GTCGGTACGC	TCTCCGATAC	GGTTCCGGTG	CTCCGGTTTA	CCTCGCCGCC
GTTCTCGAAT	ACCTAGCCGC	CGAGgtatat	tcaatctcag	atctcgttgc	atcttgaatc
gattttatttt	gtgtatctat	tagatctggt	taattttgaa	gttctaata	attgaaccgg
tttggttttag	GTACTTGAGC	TAGCTGGGAA	CGCAGCGAGA	GATAATAAGA	AGAACAGGAT
AAACCCTAGG	CATCTATGTT	TAGCGATAAG	GAACGATGAG	GAATTGGGGA	GATTGCTTCA
TGGAGTTACT	ATTGCTAGTG	GTGGTGTCT	TCCAAACATT	AATCCAGTTC	TTCTTCCTAA
GAAATCAACA	GCTTCTTCTT	CTCAAGCGGA	GAAAGCTTCT	GCTACCAAAT	CTCCTAAGAA
GGCTTGATAA	AGAATAGTAT	CGATGTTGCT	TTTTGGTTAT	ATTCGGATCT	TAGATGAAGA
AGAAGAAGAA	GAAGAAACAA	CTTGTTTTTT	GTTTTAGAGG	ATTTGTGTAG	GTATCTGAAA
TCTTCTTCTC	TTTGTTTTTG	TTTGTCTTAT	GTAAAAACCA	TGGGAAGATG	ATTATGTTTG
TTAACGCAAT	TTGTAATGGA	AAATAATTAA	GTTCTGGGAT	TAGTaacttc	atctgtctaa
ttaattttctg	ggtttcgtac	ttgttgattt	aaacaattta	ggtggattaa	ttgaaatggt
tttgggtatac	acatggaaaag	attcagtaca	gttaatgaca	ttaattaaaag	tagataataa
tcacgaaaaa	catgacatta	attaagaaaa	tgattgttca	aattgggctt	tgtttgggct
tagttgatag	gcccgttaga	atztatgttc	ttggttcatc	tacgagattc	tggaaaaagg
gttttggttt	tccggtgggg	tttagaattt	aaacaagacg	cgatttcgaa	tttcgttctt
gtagaatcaa	attgtttggt	ttcaatcttg	gatttgcgat	gatgaatttt	ctggttcgat

FIG. 8 (G)

HTA8-G

```
cacacttaaa tctttctttg ttttaataaaa agtataatca aaaatttgaa agagagaata
cgtttcatta ttttttttaa ataccatcat gagagggtgg atgaatatcc actatatttt
aactacaaat cttcttttga ataatttgca attttatgtg atataaattt ttagtaaaat
aattattttc caacaacaca agatttgaac gaattttgta aagatatcta aatataaatt
taacatgttg acccaaaaaa tgaagaatta taacaattta gaaaagccgg cccaacaaga
tccacaagag ctaaacaataa tccggcccaa caataagtcc aaactttaaa agctctcccg
cacaattttc gagcatcccg ctctcgtttt caggtaacttc cctctctgag ctagggtttt
AATTGACGT CTCTCTTTTG TCTCTGTATC GATTTTCTCG CCGCGAATTT CGAATAGGTT
CTTCAACATA AGCTTGAGAT CTTATTTCTC TACTGTCTCT TGCTTCTTCT CTATCGgtta
attatcttct ttgatttcga cgacggatct ggaaattctg aaattttgtg aagctctttt
ctttttgttt ggtttctgta gATATGGCTG GTAAAGGTGG GAAAGGGCTT CTAGCTGCGA
AGACGACGGC AGCAGCTGCA AACAAAGACA GTGTTAAGAA GAAATCCATC TCTCGTCTT
CTCGTGCTGG TATTCAGgta tccctcaaac cctagctcct tttttgagaa tctgagtggct
cggagtttga atgtgcgtta ggtttttttg attatgttca attgtgaatt gggaaccaga
tttgatattc gttctgtgtt taatgcattt ttgggaaatt gcttcctctc tgatttctgg
aaatatgttt tactctgtgt ttcttcatta aagttacaat gtgtgcttga tactggactt
ttattgtctc tatgactcta tgccaagtag cattattttt ggtgtgtctc attttatgac
tgtgatatgg tagcttgcgt gttctatacg gttgatacac acaagcttga tttctctgtg
tgcacttctt gtagttgcgt atgaagaaaa acagtgcctat ctatctagat tctagagtaa
tttgatataca atagagtact accaattgat actgagcctt aatgggagca tctacttgct
ctctctgtgt gtgtgttctg gaaatctaag ccaaacattg tcctgttatt gtcattagtt
tacttttggg attcttcctt gttaaaagccg aattgtacat atcattgaat ccatgttact
tatatggctt attgctgcag tgtcttttat tatgataatc acttgatacg ttgtaatatc
tatctataag atgtagtaag tgaatgatca agcaaattaa aggactgtgt ggtagttta
agtgtcttat taatatatat ctatctacaa gaagatctgt ctcagtctga ttaatgggaa
gcctttctct gtgccctaaa gttatgtgct tattttgttt tctcaatgtg gtattctttc
agTTTCCAGT GGGTCGTATT CATCGTCAAC TCAAGCAAAG AGTTTCAGCA CATGGAAGAG
TTGGTGCCAC TGCTGCTGTT TACACTGCAT CAATTCTAGA ATACTTGACT GCTGAAGTAC
TCGAGTTAGC TGGAAATGCG AGCAAGGATC TCAAAGTGAA GAGAATTACA CCAAGACATT
TGCAGCTTGC AATCAGAGGA GATGAGGAAC TTGACACTCT CATCAAAGGA ACCATTGCAG
GAGGAGGTGT GATCCCTCAC ATCCACAAGT CCCTTGTCAC CAAAGTCACC AAGGATTGAG
TTTCGCTCTC TGAGTCCTAA GTCTCTATTA TACTATGTGC TCTTTTCTAG ACGCCCTCAT
GTGTATATGG GTTCATTGTA TCTCTTAGGT CTCTCGTTTT AGACTCATAC TCTTGTTATT
TTGCTAATGC TTACATGATT GAGGatgatg gttcttgctt tcttggtttc ctatactggt
gcatgccctt cttctagcta accccggaca atagaaatcc tctgattagat gatgaaaacc
attcaacatc tatgtagcaa ctgatgacaa cagcgtttga ttgtttcaca a
```

FIG. 8 (H)

HTA9-G

ttagggacga	atttgtgatt	tatgattatt	tgactttaga	ttgggcttgg	gcttttttcg
cagggttggg	tataagggtg	aaatcgtcat	ttgacagacc	gacttgtctc	tctctatctg
gggaaaacgt	cttttcacat	caacaaagaa	ggaaaaaccg	cagagaaacc	atctgatact
taagctaaac	tgagcgtaca	aaaagcctct	atatgtctta	gttcatgatt	tgctatgttt
tgtttccaga	ctgaatgatt	atacagagaa	aacaaacaaa	gatctccctc	tcttcttttg
aatcaaaaca	tgggtgttaa	aatttaatat	ttttctttca	agtgtctttt	tcaatattga
actaaattta	gggacgaatt	tgtgatttat	gattatttga	cttttagattg	ggcttgggct
tttttcgcag	gttggggtat	aagggtaaaa	tcgtcatttg	acagaccgac	ttgtctctct
ctatctgggg	aaaacgtctA	TCGGGAGACT	CCTCTTCGAG	CTCATCTTCT	TCTCTCTCTT
TTTATCTTTG	GTGTGCGAT	CTCCTTTCTC	TTTCAATCTC	CAAGGATTTT	ACTGTGAGAT
ATTTGGCGGG	AAAAATGTCG	GGAAAGGTGC	TAAAGGTTTG	ATTATGGGGA	AACCCAGCGG
TAGCGACAAG	GATAAGGACA	AGAAGAAGCC	TATCACTCGT	TCTTCTCGAG	CTGGTCTCCA
Ggtagattat	aatctccctc	acactctaag	tcttccgtgt	ctgtttcttt	gggaatcgaa
atggtcttat	acacctgaac	gattagtaga	tcgctgttaa	gtggtagatc	gatgagattc
tgagctagat	ttggtaattt	cagctgagaa	ttagagacat	tgggatgcga	gatttggttt
tctattgtgt	tatctgctgg	agaattgttt	cattaagctt	ttatggttga	tattgaaccc
gatctttgat	ttcacggagt	cttggtgtta	cagctacctt	gtgaattgaa	ttcggagttt
tttttgtaga	gatttattgt	catatatgaa	atgtttctgg	gagcaattga	gatttgagta
ttcatttagg	ttccattggt	gtggctaatt	gaatttacat	tgtgtgcagT	TCCCAGTTGG
TAGGGTGCAT	CGTCTGTTAA	AGACAAGGTC	CACTGCTCAT	GGAAGGGTTG	GAGCAACTGC
AGCTGTTTAC	ACAGCAGCAA	TATTGGAGTA	TCTGACTGCA	GAAGTTTTGG	AGTTGGCTGG
TAACGCCAGC	AAGGACTTGA	AGGTGAAACG	TATCTCGCCG	AGGCATTTGC	AGCTTGCGAT
TCGTGGAGAT	GAGGAGCTCG	ATACTCTCAT	CAAAGGAACT	ATAGCTGGTG	GTGGAGTCAT
CCCTCATATC	CACAAGAGTC	TCATCAACAA	ATCCGCCAAG	GAATAGGACT	TTTTTAGTTA
CCCGCTTTGT	TCTGTGTTGC	TTTTCTGTTT	TCTAAATGTT	TTTAAGAGTT	GTTGTTTGAT
AAGATGCTAG	AGAAGCTCTT	TTTAGGATCG	TTTGCTATTG	TTCGTTCGAT	CAGCGTACTT
TGTGTTAGAG	ACGCCAGTCG	ATTTATCTAT	CTTTAAAAAT	GTATTCGAAT	GATTATCCAA
AAACCATTTC	TGAActaccta	ccttgctggt	ttgttcgctg	gagaagcttg	aaagcaaatt
cattgggaag	gatttgtatt	atctctaaat	agaattcata	tatacatcat	acataagtaa
aaatcacagg	tttgtgttta	agaaaattag	gctgataata	ttcacttggc	ctagttgacg
tcgatgtgat	tctgaagcaa	agttctttgt	agcaaatctg	gtgggagttt	taatcccttt
aagaatacac	tgatgcctga	ttt			

FIG. 8 (I)

HTA10-G

attcgaatta	tgaaaatcaa	aaaggaatga	agcgggaaca	aaaccttggg	gatttagttt
gaatcgtgat	gaagaaggaa	gacagagct	tgaggagat	tcgaaatttc	ctcgcttcat
aacaaaatct	gagaaataga	tttgaaaaac	agacaacact	aggttacaaa	aactgttact
cgatgaataa	aaaaagagga	ctttttcaaa	tcttcacaca	caaatttcac	aaagaacccg
gattcaattt	ttgaaaattg	ggctctttgg	taaaatgtaa	aacgtttggg	ccgaaaaaag
aagaaaaaaa	caaaactgta	aagaggcaaa	gaggatattt	tggttaattca	ctctgacgcg
gacctgaat	ctcgaattat	tcaccgttga	ttataacatt	atctaacggt	gataaacagc
gatccgcgta	gtttcttctt	attgggttaag	acgaatctaa	aacagtatat	aaactctgga
gaagatggag	agagtccata	ACAACAAATT	CGATTCTTAT	AACTGTTTCC	CTCTCATCTT
TACACAAAAG	TATTCTAATC	GATTTCAATG	GCGGGTCGTG	GTAAAACACT	CGGATCTGGG
TCTGCGAAGA	AGGCAACAAC	AAGAAGCAGC	AAAGCCGGTC	TCCAATTCCC	TGTGGGTCGT
ATCGCTCGTT	TCTTGAAGAA	AGGCAAATAC	GCCGAACGTG	TTGGTGCCGG	AGCTCCGGTT
TACTTAGCCG	CCGTTCTCGA	ATACCTCGCC	GCTGAGgtaa	ttcctcttcc	ctattcttca
aattttcgat	cttttagttc	aatttctata	aaccctaatt	ttgactgatt	ttggggaaat
tttgaaaaat	tagGTATTGG	AATTGGCTGG	AAACGCAGCG	AGGGATAACA	AGAAGACGAG
GATTGTTCCA	AGGCATATTC	AATTGGCGGT	GAGGAACGAT	GAAGAATTGA	GCAAATTGCT
TGGAGATGTG	ACTATTGCTA	ATGGAGGTGT	GATGCCTAAC	ATTCACAATC	TTCTTCTTCC
TAAGAAGACC	GGTGCTTCCA	AGCCATCTGC	TGAAGACGAT	TGATTAATCA	ACCAAATCCA
CTCTCTTG TG	TTTTTTGAGT	TTTTAAGGCT	TTTTAAGAGT	AATTTAGATT	AGATCTATGG
TGAAGAAAGA	ATCTATCTTC	TGTGTTTTTT	GAATTGAATT	GAATGTTTCA	ATGCTTTCAA
TTTCTTATGG	AATCAAGATT	TTAACTTTTC	Taggttttcg	agttatgatg	atgaaattct
tagtcttata	aatcactaaa	gacttgggat	ttttgattgg	ttgacataaa	gaatggactt
ttgagttaaa	tttgggaaag	ctactgggaa	tgacatcatg	agaggtgtat	aattgagcaa
ctatgacata	tattaaaaga	gatctgaagg	attgatgatg	attggtgggc	caataatg

FIG. 8 (J)

HTA11-G

tcttaacaat	caaaccaaag	catataatat	tctcttacca	tttagtttta	ccacaagcat
agtgcctaca	acctttctca	tgaaaaatgg	atctttctgt	tacaaaagaa	aaaaaaaaagc
tgatttttaa	cgtttctaag	aaatagaggg	cttaatggca	aatgttgaa	acattttaag
gctccaaagc	gaaaaattta	accgcaaag	cgtaggtttc	ccccaagat	tttgaaaata
tttaaaaact	cccaccaaac	tttttaattt	taaaactcta	atccccattct	attcaaccag
atttcgtttc	tttcgtcctt	tttttCCTTT	TGCATTCTCT	CGTCGTCGTC	TCAAGgtact
ttacttctct	ttttctctct	tccaatattc	gagatctgtt	tctgtctttc	ttggatcgat
tctcgattct	gttcttcgat	ttagtcttct	ttcgaataga	tctggtagat	ttaagcatta
tactcttctt	tttctgattt	cgtttttggt	tgactgtgta	cgggttagATC	TAGAAGAAGG
AAACAACAAT	TTCAAGAGAC	ATGGCAGGCA	AAGGTGGAAA	AGGACTCGTA	GCTGCGAAGA
CGATGGCTGC	TAACAAGGAC	AAAGACAAGG	ACAAGAAGAA	ACCCATCTCT	CGCTCTGCTC
GTGCTGGTAT	TCAGgtcatc	tcttaaacc	taatttcgac	gacctgttt	gactctgatt
ctttccta	tcacagtag	catttacatt	tttaggaata	gatttgtttt	tttggttcta
tgtaaaagca	tgaggaagta	aacttgctgg	atatgtgtaa	tttcttttac	tcggtaccat
gttgatgttt	ttgtcaatgt	ttgtgcta	tatacaaatt	tgtgttgctt	gctcactggt
tgcttggtca	tctgagaata	catgttggtt	ttgtttttgt	ctccccattg	tttaggtagt
gtcttatggt	atgtgcccaa	atgttccctt	actctgtagc	ttactattga	tattgatgag
tcacaggggt	tttaatatgt	tttgtttggt	tctagtatgt	gcaatgttct	gttttttatt
aagttatact	attttaatgg	aactatttgg	tgtgcgctga	tactgttttg	acattgatgc
tgtgcatagc	catacaagta	gagagattgg	tcacaccgat	actgtttttt	tttttcagTT
TCCAGTTGGA	CGAATTCACA	GGCAACTGAA	GACCCGAGTC	TCGGCACATG	GCAGAGTTGG
TGCCACTGCA	GCCGTCTACA	CAGCTTCAAT	CCTGGAGTAT	CTGACAGCAG	AGGTTCTTGA
GTTGGCTGGG	AATGCGAGCA	AGGATCTCAA	AGTGAAGAGG	ATAACGCCAA	GGCATCTGCA
GTTGGCGATT	AGAGGAGATG	AGGAGCTGGA	CACACTCATC	AAGGGAACGA	TTGCTGGAGG
TGGTGTGATC	CCTCACATCC	ACAAGTCTCT	CATCAACAAA	ACCACCAAGG	AGTGATGTGT
AGCTTTTTAT	GGTGTTTGTA	TTTCTGTAGT	CTTGGACTCA	TTTTCTTTTA	TCCTTTTCTT
AGTTCCTTTGA	CTAGTGTTGA	CCTCTTCTGG	ACATCCTCAG	GTGTACATTA	GTTAATTTGA
ACTCTTTAGG	TTCCTTgttc	aatcatatgt	tctctttcta	tgctattgtg	atttgcttat
tatgttttca	agtgaaccgt	tttctgtttt	aaacaactga	ggaaatcatt	tactcgcag
ctctctggta	accggactta	caagtatctt	ttagatatag	aacttgttat	caaacatcat
cagtatttta	tcaagtcaca	tattccaaat	caggcgcaaa	tagcccaatc	acaagtcaaa
gactcaatat	taaaaaaaaa	agagtacatc	attcattcac	t	

FIG. 8 (K)

HTA12-G

```
gatttagtgt ccaatagaaa gcatccaagt ttttgccaaa aaaaaagaaa gaaagcatcc
aagcaataca tataagtttc atttgcatta tattcaacag taccattttc atatcttggt
tcaaaaaata catcaaatta ttttccaaac cttcacatat aatttgagaa gaaatattac
aaattttaata taggttcagc ataatttaga aaatattatt caatgtttaa aacttctcct
aaattttgga gtattgctat taatcctttt aatgtgaaca aaacattgaa gcgaagggtg
ccagatcagc aaatcatagc cgttgattca cttccaatcc aaaagctaac attcatcaac
tgacaaaacc aaccaacca ccaacttctt tcgctatctt acgccaagc tctcttaatt
cctccgtttg catattttcc ggtcagatca aaatcagaat cagaatcaaa tttctcgteg
tgtcggagta aatcaagccA TGGATTCGG AACCAAAGTG AAGAAAGGAG CCGCTGGAAG
AAGAAGTGGT GGAGGTCCCTA AGAAGAAACC GGTTTCCCGT TCGGTAAAT CCGGTCTACA
GTTTCCTGTC GGTAGGATCG GTCGGTATCT TAAGAAAGGT CGTTATTCGA AGCGTGTCGG
AACCGGAGCT CCGGTCTATC TCGCCGCCGT CCTCGAGTAT CTTGCTGCTG AGGtaataaa
gttctgaatt cagatcagct aatcatttca tcggaattat cgcagtttca tcgatttcac
tagaattctt gtgggttttg ttctgttgct tcgttgacca tctataggtg tagaatgtct
tcttctgatt ttagggtaaa ttgataatca tctgaggttg taaaattgaa tttgttagat
actatatcac gagtagatca acctcaagac atggtttcac tttcaattag gtttaacatc
tttgctttgc aaatctcaaa atcttagata gagatatatt agcgttacat aaaaactaaa
gttgcatagt caataaaaacc taaataaaaac atctgcaagt aaacttcatt gagaatctat
catcatgtaa caccgttttg agaatctgaa taccttggac tgatgtgcat gttacatgta
actcttgtca acaaatctct gagtaactag gatatgcaaa tattgcatac taatcttttt
gatcgaatgt gacaaaacc ctttttaaag tttacaagtc tgatccgtta tatatatgtt
gtcgatttag GTTCTCGAGC TTGCTGGTAA CGCTGCAAGA GATAACAAAA AGAACCGTAT
TATACCACGC CATGTTCTAT TAGCGGTGAG GAACGACGAG GAGCTAGGGA CACTACTCAA
AGGCGTAACC ATTGCACACG GCGGTGTTTT ACCAAACATA AACCCAATAC TCCTCCCAAA
GAAGTCTGAG AAAGCAGCTT CAACTACAAA AACACCCAAA TCACCATCAA AGGCAACCAA
ATCCCCTAAG AAATCTTAGT ACTTCTTTCT TCATTCTCTT GTATAACCTA CTGTTTCTAT
CTCTCTGTAC GTTTCTCTGT AAAGACAGAA CAGAATATCT CTTTGTTGTT GTGAGAAAGC
TTAGTTTCTC TGATCGTCGT TGTGAAATAA AAAATGCAAC GTTTCATATa gattttgcac
aatcaaaaag tattcatata aacaatgtat tattattcga ctatcatcat atg
```

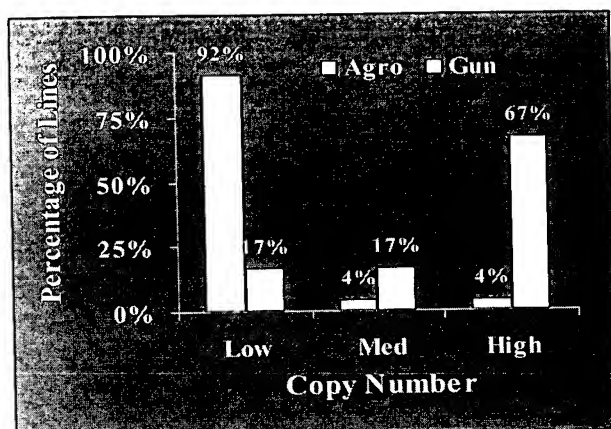
FIG. 8 (L)

HTA13-G

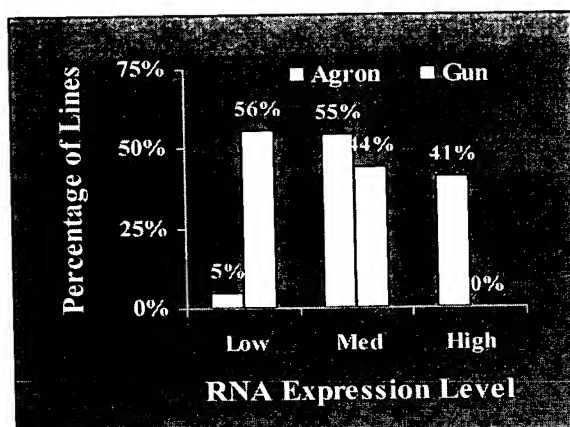
ttaatacgac	atgctaaaaa	ttgattaatc	atgtttagaa	aaatatatac	tatgataaac
ctgaaattgt	gtcacacaat	tttgatgaat	gtatatacca	catttccata	ttatacgttt
taaaagtaag	attttcataa	attttaaaat	tattcataac	attcactaaa	attagatgtg
tataattaac	aaactaaaaa	tatcattaat	ctactatttt	agtagttatt	ttgcgaaaat
atgtttgagt	tacaaaatat	tttactattt	taaatcatgt	cgattatacc	cactgaaggg
tatttccgtc	aatcccaatt	ctaacaatga	attcaggagt	ataaaaacgt	aaattcaagc
gtgccaatta	taaaccgtcg	atcataatct	aatccaacgg	cagtaacatc	gatccgcgtg
attgtttatt	attggataag	aatcactcaa	ccgtctctac	acagtatata	taataaccaa
agagcgctct	cttacgctta	TCTTAATTTT	CCTCGCATTG	AGAATTTTCA	ACTTTTCTA
TCTCTCTTCC	CAAATCACAA	ATGGCGGGTC	GCGGCAAAAC	TCTCGGATCT	GGCGTTGCTA
AGAAATCAAC	ATCGAGAAGC	AGCAAAGCCG	GTCTCCAATT	CCCCGTTGGT	CGTATCGCTC
GTTTTCTAAA	GAACGGCAAG	TACGCAACAC	GTGTTGGTGC	CGGAGCTCCG	GTTTACTTAG
CCGCCGTTCT	CGAATACCTC	GCCGCTGAGg	taattatccc	cttctctccc	tatatctctt
tactctttcg	atcttcaatt	tcgtaaaaacc	ctaattttcta	aattggatct	gttgtgttgt
agGTATTGGA	ATTGGCTGGA	AACGCAGCTA	GGGATAACAA	GAAGACTAGG	ATTGTGCCAC
GTCACATTCA	GCTCGCGGTG	AGAAACGATG	AGGAGCTGAG	TAAACTGCTT	GGAGATGTGA
CGATTGCTAA	TGGAGGTGTG	ATGCCTAACA	TTCACAGTCT	TCTTCTTCCC	AAGAAAGCTG
GTGCTTCAAA	ACCTTCCGCT	GATGAAGATT	AGATTAGGGA	TTTGTGTTGT	GGTTGTTTAG
CTAATTAATG	TGTAGCTTAG	TCTTTCATTA	GATTAGATCT	GAATTAGTTT	TCATTAATGG
TGTTGTGTAG	TCTCTCTTTT	GCTTCAAAAA	CAAGTATTAA	AATCttatta	ttttgaattg
aatccacaat	caatacacat	tgaagtccta	acaaaactact	tcttcccagt	gatatttgaa
accaaatac	taagaaaactt	agctgatttg	gtaataggag	aattcatagc	catcaagtta
tacagaacaa	gctcaacttc	ttcgattgat	ggtcgagaat	tgaattgtga	aacaactttc
aaagtaccat	taccttcttc	ttcttcaacg	agaacattcc	atctttctcc	actcacia

FIG. 8 (M)

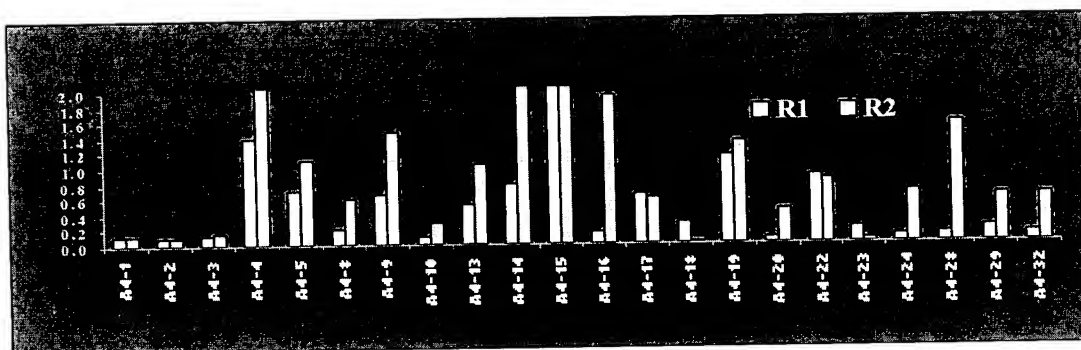
A



B



C



D

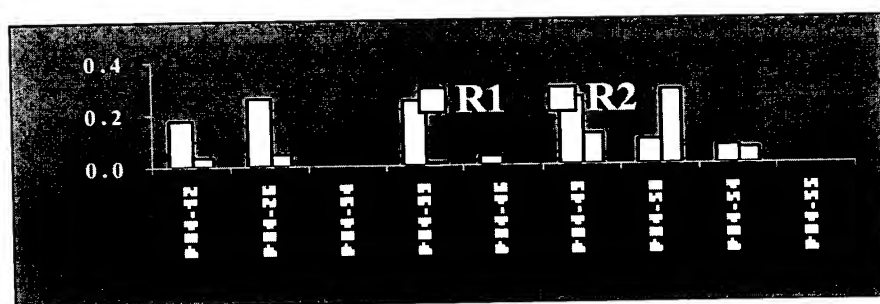


FIG. 9

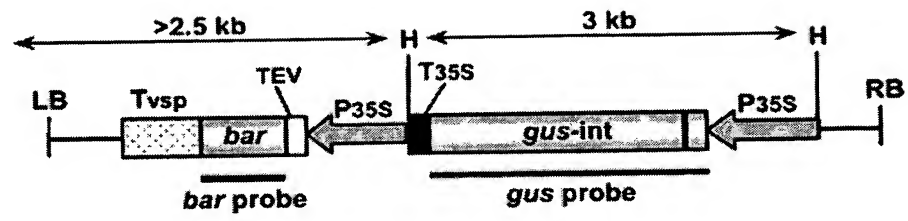


FIG. 10